

Mean Js Full Stack

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Full-Stack Web Development with Vue.js and Node - Aneeta Sharma 2018-05-14

Bring the frontend and backend together with Vue, Vuex, and Node.js Key Features Construct modern web applications with Node 10, Express.js, MongoDB, and Vue Leverage the latest web standards to increase code performance, readability, and cross-compatibility Harness the power of the JavaScript ecosystem to effectively run, build, and test your full stack applications Book Description Isomorphic JavaScript was the buzzword of the year 2017, allowing developers to utilize a single language throughout their web development stack and build cost-effective and scalable applications. MEVN is a one such modern web development stack consisting of web applications such as MongoDB, Express.js, Vue.js, and Node.js. Hands-On Full-Stack Web Development with Vue.js 2 and Node.js leverages the harmony of these technologies to help you create full-stack web applications. Starting with the core frameworks, this example-based guide explains all the key concepts of frameworks, how to set them up properly, and how to use popular modules to connect them together and make them work cohesively. You will learn all this with the help of real-world examples. In addition to this, you will be able to scaffold web application architecture, add an authentication layer, and develop the MVC structure to support the development of your application. You'll explore how to create data models for your applications and then write REST APIs by exposing your data model to your application. Solely orientated towards building a full, end-to-end application using the MEVN stack, this book will help you understand how your application development grows. What you will learn Build an application with Express.js Create schemas using Mongoose Develop a single-page application using Vue.js and Express.js Create RESTful APIs using Express.js Add test cases to improve the reliability of the application Learn how to deploy apps on Heroku using GitHub Add authorization using passports Who this book is for If you are a web or a full-stack JavaScript developer, and have tried your hand at traditional stacks such as LAMP, MEAN or MERN, or wish to explore a new stack with modern web technologies, then this book is for you. Prior knowledge of HTML, CSS, and JavaScript would be an added advantage.

Full-Stack React Projects - Shama Hoque 2020-04-17

This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

MEAN Blueprints - Robert Onodi 2016-05-30

Unlock the power of the MEAN stack by creating attractive and real-world projects About This Book Build six optimum end-to-end web applications using the M.E.A.N stack Follow the advanced Angular.js 2 application structure to build more scalable and maintainable apps Integrate an authorization system into your application and reuse existing code from projects Who This Book Is For If you are a web developer with a basic understanding of the MEAN stack, experience in developing applications with JavaScript, and basic experience with NoSQL databases, then this book is for you. What You Will Learn Build modern, end-to-end web applications by employing the full stack web development solution of MEAN Learn NoSQL databases and separate the client logic from the server code Build a complex application from start to finish and work with monetary data

in MongoDB Handle a multi-user type system and authorize your users to access control list Implement a chat application from scratch using Socket.IO Create distributed applications and use the power of server-side rendering in your applications Extend a project with a real-time bidding system using WebSockets In Detail The MEAN stack is a combination of the most popular web development frameworks available—MongoDB, Angular, Express, and Node.js used together to offer a powerful and comprehensive full stack web development solution. It is the modern day web dev alternative to the old LAMP stack. It works by allowing AngularJS to handle the front end, and selecting Mongo, Express, and Node to handle the back-end development, which makes increasing sense to forward-thinking web developers. The MEAN stack is great if you want to prototype complex web applications. This book will enable you to build a better foundation for your AngularJS apps. Each chapter covers a complete, single, advanced end-to-end project. You'll learn how to build complex real-life applications with the MEAN stack and few more advanced projects. You will become familiar with WebSockets and build real-time web applications, as well as create auto-destructing entities. Later, we will combine server-side rendering techniques with a single page application approach. You'll build a fun project and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. By the end of this book, you will be a lot more confident in developing real-time, complex web applications using the MEAN stack. Style and approach This book is filled with independent hands-on projects that teach you how to build real-life end-to-end complex web applications using the MEAN stack.

The Complete JavaScript Developer - 2018

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. In this primer course we will be introducing each section of the stack and in 16 videos we show you how to build an application using the latest and greatest technologies out there at the moment. Throughout this course we'll show you how to use each of these technologies, and how to use them together. Build great JavaScript applications using MongoDB, Express, Angular2+, TypeScript and Node.js. The overall aim of the course is to enable you to confidently build all different types of application using the MEAN stack."--Resource description page.

Express in Action - Evan Hahn 2016-04-01

Summary Express in Action is a carefully designed tutorial that teaches you how to build web applications using Node and Express. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Express.js is a web application framework for Node.js. Express organizes your server-side JavaScript into testable, maintainable modules. It provides a powerful set of features to efficiently manage routes, requests, and views along with beautiful boilerplate for your web applications. Express helps you concentrate on what your application does instead of managing time-consuming technical details. About the Book Express in Action teaches you how to build web applications using Node and Express. It starts by introducing Node's powerful traits and shows you how they map to the features of Express. You'll explore key development techniques, meet the rich ecosystem of companion tools and libraries, and get a glimpse into its inner workings. By the end of the book, you'll be able to use Express to build a Node app and know how to test it, hook it up to a database, and automate the dev process. What's Inside Simplify Node app setup with Express

Testing Express applications Use Express for easy access to Node features Data storage with MongoDB Covers Express 4 and Express 5 alpha About the Reader To get the most out of this book, you'll need to know the basics of web application design and be proficient with JavaScript. About the Author Evan Hahn is an active member of the Node and Express community and contributes to many open source JavaScript projects. Table of Contents PART 1 INTRO What is Express? The basics of Node.js Foundations of Express PART 2 CORE Middleware Routing Building APIs Views and templates: Pug and EJS PART 3 EXPRESS IN CONTEXT Persisting your data with MongoDB Testing Express applications Security Deployment: assets and Heroku Best practices *Pro MEAN Stack Development* - Elad Elrom 2016-12-01

Write free, open-source, cross-platform, dynamic JavaScript applications that can run anywhere using the MEAN stack - MongoDB, ExpressJS, AngularJS, and Node.js. With this book Mac developers will get the tools needed to set up, write code once, and be able to deploy code on any device. You will be able to cut development time by using one stack to serve all your development needs. *Pro MEAN Stack Development* enables you to quickly learn everything needed to work effectively with MEAN, from setting up your toolstack to rolling out your free servers, and deploying on any device. You will also learn to build scripts with Grunt and Gulp, Webpack, and Vagrant and how to deploy to the web and mobile using Phonegap. Harness JavaScript to create dynamic and easily-maintainable applications fast and 100% free. Master the MEAN stack with this book today. What You Will Learn Utilize JavaScript for the entire development cycle from front end to back end, database and deployment. Learn to write responsive code that can be deployed on any device. Become a well-rounded developer and be able to understand the entire development cycle. Learn to utilize free open source and cloud services to deploy production-grade code. Who This Book Is For Front or back end Mac developers familiar with JavaScript and interested in utilizing the MEAN stack to deploy successful apps on all devices.

Learning AngularJS - Ken Williamson 2015-03-18

With AngularJS, you can quickly build client-side applications that run well on any desktop or mobile platform, using REST web services for backend processes. You may have heard that the learning curve for this JavaScript MVC framework is too steep, but that's not the case. This practical guide provides a hands-on approach to learning AngularJS that will have you building high-quality applications and websites in no time. Along with a conceptual understanding of the framework, you'll also gain direct experience with AngularJS by building a sample application throughout the book. If you're familiar with JavaScript, web development, and software design concepts and patterns, this book is the perfect way to get started. Understand how AngularJS differs from other MVC frameworks Learn about AngularJS controllers, views, and models by diving into the book's sample project Connect your working application to public REST services Build the application's security layer with non-REST AngularJS services Explore the basics of building and testing AngularJS directives Use AngularJS as part of the MEAN stack (MongoDB, ExpressJS, AngularJS, and Node.js) Discover how search engine optimization relates to AngularJS applications and sites

Learning Web Development with the MEAN Stack - Michael Perrenour 2015

"MEAN is the now famously known combination of MongoDB, Express.js, AngularJS, and Node.js, which has emerged as one of the leading technology stacks for developing dynamic web applications. The MEAN stack simplifies development and promotes team cohesion by allowing applications to be written and maintained entirely in JavaScript, on the frontend, and backend. This course focuses on the full-stack MEAN development process and goes in-depth by incorporating a supporting architecture with Grunt and integrating automated testing. It will walk you through building a real, enterprise-grade application. Starting out with the fundamentals of the MEAN stack technologies, you will learn how to build a strong solution architecture for automated builds and distributed development. You'll then dive deep into Grunt, Bower, and npm to become a full-stack MEAN engineer. You will discover how to build one-to-many relationships using arrays of objects in Mongoose. Diving even deeper, you'll meet new technologies such as

D3, which will help you to build graphs for an enterprise dashboard. Then, we will test our Node and Angular applications with Karma, Jasmine, Mocha, and Chai. By the end, you'll be able to build a powerful, MEAN-backed application for working in a distributed team."--Resource description page.

Practical Node.js - Azat Mardan 2018-08-17

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages. With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. *Practical Node.js* takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoose and Mongooskin. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. You already know what Node.js is; now learn what you can do with it and how far you can take it! What You'll Learn Manipulate data from the mongo console Use the Mongoose and MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha, Expect and TravisCI Utilize sessions for authentication Implement a third-party OAuth strategy with Everyauth Apply Redis, domains, WebSockets, and clusters Write your own Node.js module, and publish it on NPM Who This Book Is For Web developers who have some familiarity with the basics of Node.js and want to learn how to use it to build apps in a professional environment.

Pro MERN Stack - Vasan Subramanian 2017-03-02

Assemble the complete stack required to build a modern web app using React: MongoDB (a NoSQL database) and Express (a framework for web application servers), which runs on Node (JavaScript on the server side), complement React very nicely. This book will also cover many other tools that go into building a complete web application: React Router, React-Bootstrap, Redux, Babel, and webpack. Though the primary focus of *Pro MERN Stack* is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. But it has its shortcomings such as lack of support for SEO friendly server-side rendering and being too prescriptive by being a framework. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack. What You Will Learn Discover the details of React, the React Way, and how to get the maximum out of this library See the basics of MongoDB, Express, and Node, enough to build a web app Work with other tools complementary to React, including React-Bootstrap and React Router Use the tools required to build JavaScript based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

Full Stack JavaScript Development With MEAN - Colin J Ihrig 2014-12-24

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as

well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potential issues - a feature that is especially useful in non-compiled languages like JavaScript.

Web Application Development with MEAN - Amos Q. Haviv 2016-10-28

Unlock the power of the MEAN stack by creating attractive and real-world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application Build optimum end-to-end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions Enhance your website's usability with social logins such as Facebook, Twitter, and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket.IO Create distributed applications and use the power of server-side rendering in your applications Extend a project with a real-time bidding system using WebSockets In Detail The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to build a real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products:

MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge.

MEAN Cookbook - Nicholas McClay 2017-09-28

Over 50 recipes to create full-stack high-performance web applications using pure JavaScript and the MEAN stack. About This Book Architect a fully functional stand-alone web application, including the web server, database, and front-end web application Improve the performance and maintainability of your MEAN stack application with tips for configuration and optimization Highlights MEAN Stack best practices when working with your application Who This Book Is For If you are a JavaScript developer who wants to create high-performing, modern web applications with the MEAN stack, this is the book for you. Web developers familiar with some parts of the MEAN stack will find this a comprehensive guide to fleshing out the other technologies and skills they need to build all JavaScript web applications. Developers interested in transitioning from other web application stacks to an all-JavaScript environment will find a wealth of information about how to work in a MEAN stack environment. To get the most from this book, you should have a general understanding of web servers and web applications. You are expected to have a basic understanding of running JavaScript, both in a web browser and outside it, using Node.js and the NPM package manager. What You Will Learn Bootstrap a new MEAN stack web application using Node.js and Express Build a single-page application (SPA) with Angular and Angular-CLI Improve browser performance by optimizing your web application resources using Webpack Model complex JSON object relationships in MongoDB using Mongoose Debug all the layers of a MEAN stack application, including working with source maps Build Restful APIs using Express.js and JSON Web Token (JWT) for user authentication Use automated testing to improve the reliability and quality of your MEAN stack application In Detail The MEAN Stack is a framework for web application development using JavaScript-based technologies; MongoDB, Express, Angular, and Node.js. If you want to expand your understanding of using JavaScript to produce a fully functional standalone web application, including the web server, user interface, and database, then this book can help guide you through that transition. This book begins by configuring the frontend of the MEAN stack web application using the Angular JavaScript framework. We then implement common user interface enhancements before moving on to configuring the server layer of our MEAN stack web application using Express for our backend APIs. You will learn to configure the database layer of your MEAN stack web application using MongoDB and the Mongoose framework, including modeling relationships between documents. You will explore advanced topics such as optimizing your web application using WebPack as well as the use of automated testing with the Mocha and Chai frameworks. By the end of the book, you should have acquired a level of proficiency that allows you to confidently build a full production-ready and scalable MEAN stack application. Style and Approach This book is a guide of MEAN Stack specific solutions to common web application problems and includes in-depth guides for each layer of the application stack. Readers looking to upgrade their MEAN Stack web application will find recipes within to help them transition.

Full-Stack JavaScript Development - Eric Bush 2016-08-09

Build Full-Stack applications with simple to use, yet powerful JavaScript technologies and host everything in the cloud in an economic and agile way. This book contains an all-encompassing presentation of theory, reference and implementation for building three tier architectures - Data Layer (MongoDB), Service Layer (Express/Node.js) and Presentation Layer (Angular). Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service. In-depth coverage of NPM modules like express, async, joi, helmet, jwt-simple, supertest, mongodb and more. Utilize Mocha, Fiddler and Selenium.

Fullstack D3 and Data Visualization - Amelia Wattenberger 2019-02

Build beautiful data visualizations with D3 The Fullstack D3 book is the complete guide to D3.

With dozens of code examples showing each step, you can gain new insights into your data by creating visualizations. Learn how to quickly turn data into insights with D3 We have the data. But it needs to be understood by humans. The best way to convert this data into an understandable format is to mold it into a data visualization. And D3 is the best tool for job if you need to create custom data visualizations. With Fullstack D3 and Data Visualization you and your team will be able to share key insights, uncover problems before they start, and impress your boss by creating gorgeous visualizations. What's Inside Chapter 0: Introduction When would you want to use D3.js? There is a spectrum of libraries to create charts on the web: on one end, you have easy-to-use, basic libraries that will create a standard chart type. Chapter 1: Making your first chart In this chapter we make a line chart. Line charts are a great starting place because of their popularity, but also because of their simplicity. Chapter 2: Making a scatterplot When looking at the relationship between two metrics, a scatterplot is a good choice. In this chapter we show how to create a scatterplot. Chapter 3: Making a bar chart In this chapter we cover how to create a histogram, which is a bar chart that shows the distribution of one metric, with the metric values on the x axis and the frequency of values on the y axis. Chapter 4: Animations and Transitions When we update our charts, we can animate elements from their old to their new positions. These animations can be visually exciting, but more importantly, they have functional benefits. Chapter 5: Interactions The biggest advantage of creating charts with JavaScript is the ability to respond to user input. Chapter 6: Making a map Maps are also uniquely good at answering geography-based questions. In this chapter, we'll build a map and learn how to plot values within a location. Chapter 7: Data Visualization Basics Now that we're comfortable with how to create a chart, we should zoom out a bit and talk about what chart to create. Chapter 8: Common Charts In this chapter, we talk about common chart types and when to use them. Chapter 9: Dashboard Design A dashboard is any web interface that makes sense out of dynamic data, and in this chapter we learn how to make one. Chapter 10: Advanced Visualization: Marginal Histogram First, we'll focus on enhancing a chart we've already made: our scatter plot. This chart will have multiple goals, all exploring the daily temperature ranges in our weather dataset. Chapter 11: Advanced Visualization: Radial Weather Chart We talked about radar charts in Chapter 10. For this project, we'll build a more complex radar chart. Chapter 12: Advanced Visualization: Animated Sankey Diagram In this project, we'll be simulating real data and creating an animated diagram to engage our viewers. Chapter 13: D3 and React What's the best way to draw a chart within React? It turns out that there is a fair bit of overlap in functionality between a React and D3 - we'll discuss how we can create blazing fast charts using the two together. Chapter 14: D3 and Angular In this chapter we show how to create optimized SVG charts using D3 and Angular.

Web Development with Node and Express - Ethan Brown 2014-07

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

MEAN Web Development - Amos Q. Haviv 2016-07-29

Develop your real-time MEAN application efficiently using a combination of MongoDB, Express,

Angular 2, and Node 5.0 About This Book* Construct a fully-functional MEAN application by using its components along with the best third-party modules* Harness the power of the JavaScript ecosystem to effectively run, build, and test your MEAN application* Gain a deep, practical understanding of real-time web application development through real-world examples Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB, Express, Angular 2, and Node 5.0, then this book is for you. You only need knowledge of JavaScript development. What You Will Learn* Use MongoDB to store and retrieve your application's data* Connect your Express application to MongoDB and use the Mongoose module* Manage your users' authentication and offer them diverse login options using Passport* Structure and use an Angular 2 application in your MEAN project* Use Socket.io to create real-time communication between your client and server* Test your application's Express and Angular 2 entities In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast, robust, and maintainable web applications. Starting with the MEAN core frameworks, this pragmatic guide will explain the key concepts of each framework, how to set them up properly, and how to use popular modules to connect it all together. By following the real-world examples shown in this tutorial, you will scaffold your MEAN application architecture, add an authentication layer, and develop an MVC structure to support your project development. You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls. Finally, you will walk through the different tools and frameworks that will help expedite your daily development cycles. Watch how your application development grows by learning from the only guide that is solely orientated towards building a full, end-to-end, real-time application using the MEAN stack!

Learning JavaScript Design Patterns - Addy Osmani 2012-07-08

With *Learning JavaScript Design Patterns*, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

Full Stack JavaScript Development With MEAN - Colin J Ihrig 2014-12-24

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These

chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potential issues - a feature that is especially useful in non-compiled languages like JavaScript.

Getting MEAN with Mongo, Express, Angular, and Node - Simon Holmes 2019-04-22
Summary Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages mid-application can radically slow down a full-stack web project. The MEAN stack—MongoDB, Express, Angular, and Node—uses JavaScript end to end, maximizing developer productivity and minimizing context switching. And you'll love the results! MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications! What's inside MongoDB 4, Express 4, Angular 7, and Node.js 11 MEAN stack architecture Mobile-ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with standard web application designs and ES2015-style JavaScript. About the Author Simon Holmes and Clive Harber are full-stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents PART 1 - SETTING THE BASELINE Introducing full-stack development Designing a MEAN stack architecture PART 2 - BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and Express Building a data model with MongoDB and Mongoose Writing a REST API: Exposing the MongoDB database to the application Consuming a REST API: Using an API from inside Express PART 3 - ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single-page application with Angular: Foundations Building a single-page application with Angular: The next level PART 4 - MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users, managing sessions, and securing APIs Using an authentication API in Angular applications

Pro MERN Stack - Vasan Subramanian 2019-05-11
Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React - hence the term MERN stack What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build

JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

Node.js in Action - Tim Oxley 2017-08-16

Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous programming, state management, and event-driven programming. And you'll learn to put together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk, and Nathan Rajlich. Table of contents PART 1 - WELCOME TO NODE Welcome to Node.js Node programming fundamentals What is a Node web application? PART 2 - WEB DEVELOPMENT WITH NODE Front-end build systems Server-side frameworks Connect and Express in depth Web application templating Storing application data Testing Node applications Deploying Node applications and maintaining uptime PART 3 - BEYOND WEB DEVELOPMENT Writing command-line applications Conquering the desktop with Electron MEAN Web Development - Amos Q. Haviv 2014-09-25

If you are a web or a full-stack JavaScript developer who is interested in learning how to build modern web applications using the MEAN stack, this book is for you.

Learning Path - 2017

"Web development is moving fast and to keep up to mark, you need a technology stack that is fast too. The MEAN stack includes MongoDB, Express, Angular, and Node.js. These tools provide a rich environment to build advanced web applications in a short space of time. All the pieces of the MEAN stack are practically tried and tested in large and small-scale organizations. This Learning Path begins by covering the fundamentals of the baseline technologies you need to know to become a full stack web developer. You will know how to work with: NPM, Node.js, Express.js, and MongoDB. We then move on to creating scalable web apps with the MEAN stack and understand how to make all MEAN components work together. Finally, you'll learn how to deploy apps to the cloud and make them available to the public. If you have no prior exposure to one of the most promising avenues of efficient web development, this Learning Path will help you get up to speed in no time."--Resource description page.

Professional JavaScript for Web Developers - Matt Frisbie 2019-10-02

Update your skill set for ES 6 and 7 with the ultimate JavaScript guide for pros Professional JavaScript for Web Developers is the essential guide to next-level JavaScript development. Written for intermediate-to-advanced programmers, this book jumps right into the technical details to help you clean up your code and become a more sophisticated JavaScript developer. From JavaScript-specific object-oriented programming and inheritance, to combining JavaScript with HTML and other markup languages, expert instruction walks you through the fundamentals and beyond. This new fourth edition has been updated to cover ECMAScript 6 and 7 (also known as

ES2015 and ES2016) and the major re-imagination and departure from ES 5.1; new frameworks and libraries, new techniques, new testing tools, and more are explained in detail for the professional developer, with a practical focus that helps you put your new skills to work on real-world projects. The latest—and most dramatic—ES release is already being incorporated into JavaScript engines in major browsers; this, coupled with the rise in mobile web traffic increasing demand for responsive, dynamic web design, means that all web developers need to update their skills—and this book is your ideal resource for quick, relevant guidance. Get up to date with ECMAScript 6 and 7, new frameworks, and new libraries Delve into web animation, emerging APIs, and build systems Test more effectively with mocks, unit tests, functional tests, and other tools Plan your builds for future ES releases Even if you think you know JavaScript, new ES releases bring big changes that will affect the way you work. For a professional-level update that doesn't waste time on coding fundamentals, Professional JavaScript for Web Developers is the ultimate resource to bring you up to speed.

AngularJS: Maintaining Web Applications - Rodrigo Branas 2016-04-22

Get started with speed building AngularJS applications, and scale up to a full-stack web application, using the existing AngularJS framework without the trouble of migrating to Angular 2 About This Book Follow the best practices of the framework to organize and modularize your application Get to grips with Angular's Model-View-Controller architecture Create application modules with maximum reusability and extensibility Structure and use AngularJS applications in your MEAN project in your MEAN project Who This Book Is For This course is for people who want to discover how they can improve their current web applications with the existing version of Angular without having to worry much about migrating to AngularJS 2 What You Will Learn Install and set up the AngularJS framework Create your own full-featured and robust AngularJS web apps Create reusable directives and then extend the behavior of HTML on your web page Optimize and maintain your web applications Create more powerful full-stack web applications, that draw on the combined power of AngularJS, Node.js, MongoDB, and Express in the MEAN stack In Detail The AngularJS course is a journey to help you improve and scale your current web applications with the existing version of Angular without having to worry about migration to Angular 2. The course is divided into four modules. The first part—AngularJS Essentials is like a practical guide, filled with many step-by-step examples that will lead you through the best practices of AngularJS. After a brief introduction, you will learn how to create reusable components with directives. You will then take a look at many data handling techniques, discover a complete set of technologies that are capable to accomplish any challenge related to present, transform, and validate data on the user's interface. Finally, you will discover the best way to deal with the scope and how to break up the application into separate modules, giving rise to reusable and interchangeable libraries. With this you've crossed a milestone and are about to enter the world of learning by example. In the next part—Learning AngularJS By Example, you will learn how to effectively build apps using the AngularJS platform. You will be building multiple apps on this platform ranging from simple ones to more complex ones. In this module, you will roll up your coding sleeves and create a serious AngularJS application by example - a rich featured workout app. Take the coding a step at a time at first, then once you're coding a full app in this module, a lot of AngularJS will fall right into place for you. The third module—AngularJS Web Application Development Cookbook, will get you accustomed to the AngularJS concept armed with a solid understanding of how it works, insight into the best ways to wield it in real-world applications, and annotated code examples. It is a rich library of AngularJS coding solutions that you can use straight away in your own code projects. You are just a step away from completing this learning path of AngularJS. The name of the next part—MEAN Web Development itself assures that you are nearing the destination. The idea is simple with this part, you'll take MongoDB as the database, Express as the web framework, AngularJS as the frontend framework, and Node.js as the platform, and combine them together in a modular approach that will ensure the flexibility needed in modern software development. This is also your graduation to full-stack web development, which can open many new coding and

career opportunities for you! Style and approach Get up to speed building AngularJS applications, then improve and scale full-stack web applications, using the existing AngularJS framework without the trouble of migrating to Angular 2

Mathematics for Machine Learning - Marc Peter Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

The Full Stack Developer - Chris Northwood 2018-11-19

Understand the technical foundations, as well as the non-programming skills needed to be a successful full stack web developer. This book reveals the reasons why a truly successful full stack developer does more than write code. You will learn the principles of the topics needed to help a developer new to agile or full stack working—UX, project management, QA, product management, and more— all from the point of view of a developer. Covering these skills alongside the fundamentals and foundations of modern web development, rather than specifics of current technologies and frameworks (which can age quickly), all programming examples are given in the context of the web as it is in 2018. Although you need to feel comfortable working on code at the system, database, API, middleware or user interface level, depending on the task in hand, you also need to be able to deal with the big picture and the little details. The Full Stack Developer recognizes skills beyond the technical, and gives foundational knowledge of the wide set of skills needed in a modern software development team. What You'll Learn Plan your work including Agile vs Waterfall, tools, scrum, kanban and continuous delivery Translate UX into code: grids, component libraries and style guides Design systems and system architectures (microservices to monoliths) Review patterns for APIs (SOAP, AJAX, REST), defining API domains, patterns for REST APIs and more API goodness Study the various front-end design patterns you need to know Store data, what to consider for security, deployment, in production and more Who This Book Is For New graduates or junior developers who are transitioning to working as part of a larger team structure in a multi-disciplinary teams and developers previously focused on only front-end or back-end dev transitioning into full stack.

Fullstack React - Accomazzo Anthony 2017-03

LEARN REACT TODAY The up-to-date, in-depth, complete guide to React and friends. Become a ReactJS expert today

The Complete JavaScript Developer - 2017

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. We're not talking about any generators or MEAN frameworks here, we're talking about a full understanding of MongoDB, Express, AngularJS and Node.js. Throughout this course we'll show you how to use each of these technologies, and how to use them together. Build Great JavaScript Applications using MongoDB, Express, AngularJS 1.x and Node.js. The overall aim of the course is to enable to you confidently build all different types of application using the MEAN stack. To do this, the course is divided into four sections, each section focusing on a different goal. The four sections all work together building a full application, with an overall outcome of showing how to architect and build complete MEAN applications."--Resource description page.

Modern Full-Stack Development - Frank Zammetti 2020-03-29

Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

Pro MEAN Stack Development - Elad Elrom 2016-12-29

This book teaches you to write free, open-source, cross-platform, dynamic JavaScript applications that can run anywhere. Using the MEAN stack - MongoDB, ExpressJS, AngularJS, and Node.js - you will get the tools you need to set up, write your code once, and be able to deploy your code on any device. You will be able to cut development time by using one stack to serve all your development needs. With Pro MEAN Stack Development you will quickly learn everything needed to work effectively with MEAN, from setting up your toolstack to rolling out your free servers, and deploying on any device. As well as MEAN you will also learn to build scripts with Grunt and Gulp, Webpack, and Vagrant as well as deployment for the web and mobile using Phonegap. Harness JavaScript to create dynamic and easily-maintainable applications fast and 100% free. Master the MEAN stack with this book today. What You Will Learn Utilize JavaScript for the entire development cycle from front end to back end, database and deployment. Learn to write responsive code that can be deployed on any device. Become a well-rounded developer and be able to understand the entire development cycle. Learn to utilize free open source and cloud services to deploy production-grade code. Who This Book Is For This book is for front or back end developers interested in utilizing the MEAN stack to deploy successful apps on all devices. You need to have knowledge of JavaScript but no prior knowledge of using the MEAN stack is required.

Modern Full-Stack Development - Frank Zammetti 2022-11-28

Explore what React, Node, Python, Django, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. This updated version will show you how to build apps with React, Node.js or Django, and TypeScript, and how Webpack can be used to optimize and organize your code for deployment. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing three different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for real. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. You'll see why React is one of the most popular web development tools available today, and why Node.js is also frequently used for server-side development. The fact that both utilize JavaScript is a big selling point, but there are shortcomings. Modern Full-

Stack Development highlights how adding Django, Webpack, and Docker to the mix resolves any issues by creating a potent full development stack on which to build applications - two possible stacks, really!! What You'll Learn: Review the basics of TypeScript and writing both React and Node apps with it Construct a project with NPM and Webpack, configuration and usage Utilize client-side and server-side development Employ REST APIs and database usage across two tech stacks, Node and Python/Django Deploy apps using Docker Who This Book Is For: Web developers and software architects.

Node.js, MongoDB and Angular Web Development - Brad Dayley 2017-10-11

Node.js, MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node.js is a leading server-side programming environment, MongoDB is the most popular NoSQL database, and Angular is the leading framework for MVC-based front-end development. Together, they provide an easy-to-implement, fully integrated web development stack that allows web programmers to create high-performance sites and applications built completely in JavaScript, from server to client. Updated for Angular 2, Angular 4, and subsequent versions, this new edition of Node.js, MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions. It begins with concise, crystal-clear tutorials on each technology and then quickly moves on to building common web applications. You'll learn how to use Node.js and MongoDB to build more scalable, high-performance sites, how to leverage Angular's innovative MVC approach to structure more effective pages and applications, and how to use all three together to deliver outstanding next-generation Web solutions. Implement a highly scalable and dynamic web server using Node.js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node.js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server-side web services in JavaScript Implement client-side services that can interact with the Node.js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages Contents at a Glance Part I: Getting Started 1 Introducing the Node.js-to-Angular Stack 2 JavaScript Primer Part II: Learning Node.js 3 Getting Started with Node.js 4 Using Events, Listeners, Timers, and Callbacks in Node.js 5 Handling Data I/O in Node.js 6 Accessing the File System from Node.js 7 Implementing HTTP Services in Node.js 8 Implementing Socket Services in Node.js 9 Scaling Applications Using Multiple Processors in Node.js 10 Using Additional Node.js Modules Part III: Learning MongoDB 11 Understanding NoSQL and MongoDB 12 Getting Started with MongoDB 13 Getting Started with MongoDB and Node.js 14 Manipulating MongoDB Documents from Node.js 15 Accessing MongoDB from Node.js 16 Using Mongoose for Structured Schema and Validation 17 Advanced MongoDB Concepts Part IV: Using Express to Make Life Easier 18 Implementing Express in Node.js 19 Implementing Express Middleware Part V: Learning Angular 20 Jumping into TypeScript 21 Getting Started with Angular 22 Angular Components 23 Expressions 24 Data Binding 25 Built-in Directives Part VI: Advanced Angular 26 Custom Directives 27 Events and Change Detection 28 Implementing Angular Services in Web Applications 29 Creating Your Own Custom Angular Services 30 Having Fun with Angular

Full-Stack React Projects - Shama Hoque 2018-05-29

Unleash the power of MERN stack by building diverse web applications using React, Node.js, Express, and MongoDB Key Features Create dynamic web applications with the MERN stack Leverage the power of React in building interactive and complex user interfaces Unlock the potential of Node, Express, and MongoDB to build modern full-stack applications Book Description The benefits of using a full JavaScript stack for web development are undeniable, especially when robust and widely adopted technologies such as React, Node, and Express and are available. Combining the power of React with industry-tested, server-side technologies, such as Node, Express, and MongoDB, creates a diverse array of possibilities when developing real-world web applications. This book guides you through preparing the development environment for MERN stack-based web development, to creating a basic skeleton application and extending it to build

four different web applications. These applications include a social media, an online marketplace, a media streaming, and a web-based game application with virtual reality features. While learning to set up the stack and developing a diverse range of applications with this book, you will grasp the inner workings of the MERN stack, extend its capabilities for complex features, and gain actionable knowledge of how to prepare MERN-based applications to meet the growing demands of real-world web applications. What you will learn Set up your development environment and develop a MERN application Implement user authentication and authorization using JSON Web Tokens Build a social media application by extending the basic MERN application Create an online marketplace application with shopping cart and Stripe payments Develop a media streaming application using MongoDB GridFS Implement server-side rendering with data to improve SEO Set up and use React 360 to develop user interfaces with VR capabilities Learn industry best practices to make MERN stack applications reliable and scalable Who this book is for Full-Stack React Web Development Projects is for JavaScript developers who have some experience with React, but no previous experience with full-stack development involving Node, Express, and MongoDB, and who want practical guidelines to start building different types of real-world web applications with this stack.

Pro Node.js for Developers - Colin J. Ihrig 2014-01-18

Since its creation in 2009, Node.js has grown into a powerful and increasingly popular asynchronous-development framework for creating highly-scalable network applications using JavaScript. Respected companies such as Dow Jones and LinkedIn are among the many organizations to have seen Node's potential and adopted it into their businesses. Pro Node.js for Developers provides a comprehensive guide to this exciting new technology. We introduce you to Node - what it is, why it matters and how to set it up - before diving deeply into the key concepts and APIs that underpin its operation. Building upon your existing JavaScript skills you'll be shown how to use Node.js to build both Web- and Network-based applications, to deal with data sources, capture events and deal with child processes to create robust applications that will work well in a wide range of circumstances. Once you've mastered these skills we'll go further, teaching you more advanced software engineering skills that will give your code a professional edge. You'll learn how to create easily reusable modules that will save you time through code reuse, to log and debug your applications quickly and effectively and to write code that will scale easily and reliably as the demand for your application grows.

Full Stack JavaScript - Azat Mardan 2015-12-30

This is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, MongoDB, Backbone.js, Parse.com, Heroku and Windows Azure. Practical examples include building multiple versions of the Chat app: •jQuery + Parse.com JS REST API•Backbone and Parse.com JS SDK•Backbone and Node.js•Backbone and Node.js + MongoDB The Chat application has all the foundation of a typical web/mobile application: fetching data, displaying it, submitting new data. Other examples in the book are as follows:•jQuery + Twitter RESP API "Tweet Analyzer"•Parse.com "Save John"•MongoDB "Print Collections"•Backbone.js "Apple Database"•Monk + Express.js "REST API Server" This book will save you many hours by providing a hand-picked and tested collection of quick start guides. RPJS has practical examples that allow to spend less time learning and more time building your own applications. Prototype fast and ship code that matters! What You will Learn: You should expect a basic understanding from a collection of quick start guides, tutorials and suggestions for the development apps discussed in this book. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You'll learn from the examples of Chat web/mobile applications starting with front-end components and by the end we'll put front-end and back-end together and deploy to the production environment. Who This Book is For: The typical programmer who wants to learn more about effective JavaScript coding.

Node.js Web Development - David Herron 2020-07-31

Build scalable web applications using Node.js, Express.js, and the latest ECMAScript techniques, along with deploying applications with AWS and Docker with this updated fifth edition Key Features • Learn backend web programming with the JavaScript stack • Explore best practices, right from configuring and building web servers to deploying them on a production cloud hosting system: AWS using Docker and Terraform • Work through the different stages of developing robust and scalable apps using Node.js 14 Book Description Node.js is the leading choice of server-side web development platform, enabling developers to use the same tools and paradigms for both server-side and client-side software. This updated fifth edition of Node.js Web Development focuses on the new features of Node.js 14, Express 4.x, and ECMAScript, taking you through modern concepts, techniques, and best practices for using Node.js. The book starts by helping you get to grips with the concepts of building server-side web apps with Node.js. You'll learn how to develop a complete Node.js web app, with a backend database tier to help you explore several databases. You'll deploy the app to real web servers, including a cloud hosting platform built on AWS EC2 using Terraform and Docker Swarm, while integrating other tools such as Redis and NGINX. As you advance, you'll learn about unit and functional testing, along with deploying test infrastructure using Docker. Finally, you'll discover how to harden Node.js app security, use Let's Encrypt to provision the HTTPS service, and implement several forms of app security with the help of expert practices. With each chapter, the book will help you put your knowledge into practice throughout the entire life cycle of developing a web app. By the end of this Node.js book, you'll have gained practical Node.js web development knowledge and be able to build and deploy your own apps on a public web hosting solution. What you will learn • Install and use Node.js 14 and Express 4.17 for both web development and deployment • Implement RESTful web services using the Restify framework • Develop, test, and deploy microservices using Docker, Docker Swarm, and Node.js, on AWS EC2 using Terraform • Get up to speed with using data storage engines such as MySQL, SQLite3, and MongoDB • Test your web applications using unit testing with Mocha, and headless browser testing with Puppeteer • Implement HTTPS using Let's Encrypt and enhance application security with Helmet Who this book is for If you're looking for an alternative to the 'P' languages (Perl, PHP, and Python), or if you want to get started with server-side web development with JavaScript programming, or if you want a deep dive into deploying services to cloud hosting, this Node.js book is for you. A rudimentary understanding of JavaScript and web application development is a must before you get started with this book. Table of Contents • About Node.js • Setting Up Node.js • Exploring Node.js Modules • HTTP Servers and Clients • Your First Express Application • Implementing the Mobile-First Paradigm • Data Storage and Retrieval • Authenticating Users with a Microservice • Dynamic Client/Server Interaction with Socket.IO • Deploying Node.js Applications to Linux Servers • Deploying Node.js microservices with Docker • Deploying a Docker Swarm to AWS EC2 with Terraform • Unit Testing and Functional Testing • Security in Node.js Applications

Write Modern Web Apps with the MEAN Stack - Jeff Dickey 2014-09-25

"The MEAN stack (Mongo, Express, AngularJS, and Node.js) offers a new path to writing web applications by treating the front-end as if it were a third-party (such as a mobile client). This video by full-stack developer Jeff Dickey takes a holistic approach to learning the MEAN JavaScript platform and shows how to build, test, and deploy apps."--Resource description page.

Mongoose for Application Development - Simon Holmes 2013-01-01

This book is a mini tutorial full of code examples and strategies to give you plenty of options when building your own applications with MongoDB. This book is ideal for people who want to develop applications on the Node.js stack quickly and efficiently. Prior knowledge of the stack is not essential as the book briefly covers the installation of the core components and builds all aspects of the example application. The focus of the book is on what Mongoose adds to you applications, so experienced Node.js developers will also benefit.