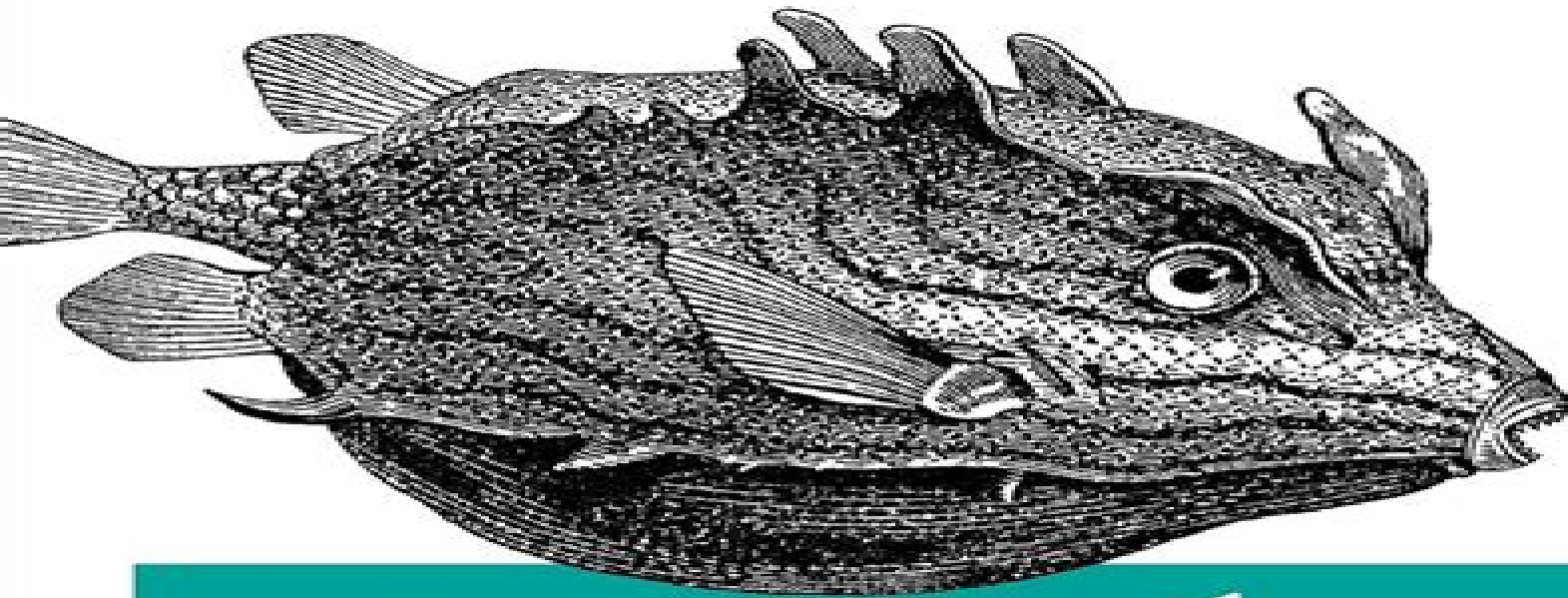


Writing Server-Side JavaScript Applications



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Node For Front End Developers Garann Means

**Mithun Satheesh, Bruno Joseph
D'mello, Jason Krol**



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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

Modern Frontend Development with Node.js Florian Rappl, 2022-11-30 Enhance your web development projects by fully leveraging Node.js concepts tools and best practices at frontend Key Features Discover the internals of Node.js focusing on frontend web development Explore the npm frontend ecosystem including its tooling usage and development processes Learn about key web development concepts such as monorepos or publishing libraries Book Description Almost a decade after the release of Node.js the tooling used by frontend developers is fully embracing this cross platform JavaScript runtime which is sadly often limited to server side web development This is where this Node.js book

comes in showing you what this popular runtime has to offer and how you can unlock its full potential to create frontend focused web apps You ll begin by learning the basics and internals of Node js before discovering how to divide your code into modules and packages Next you ll get to grips with the most popular package managers and their uses and find out how to use TypeScript and other JavaScript variants with Node js Knowing which tool to use when is crucial so this book helps you understand all the available state of the art tools in Node js You ll interact with linters such as ESLint and formatters such as Prettier As you advance you ll become well versed with the Swiss Army Knife for frontend developers the bundler You ll also explore various testing utilities such as Jest for code quality verification Finally you ll be able to publish your code in reusable packages with ease By the end of this web development book you ll have gained the knowledge to confidently choose the right code structure for your repositories with all that you ve learned about monorepos What you will learn Develop a frontend application with Node js based tools and libraries Use bundlers such as webpack or Vite to create efficient web applications Leverage test runners such as Jest to ship reliable software Organize code repositories to work in close collaboration with other developers and teams Find out how to publish npm packages to simplify code reuse Improve code quality by enabling consistent formatting using Prettier Who this book is for This book is for junior and intermediate level frontend web developers who are looking to leverage the Node js ecosystem for building frontend solutions The book requires beginner level knowledge of JavaScript HTML and CSS Prior experience in using a standard shell sh will be beneficial

Learning Path Wes Higbee, 2016 Since its release in 2009 Node js has experienced a meteoric rise in popularity among web developers A server side runtime for building web apps in JavaScript that leverages Google s V8 engine Node now helps power applications for companies like Uber Walmart PayPal IBM and many more However for frontend developers the thought of working with backend technologies can seem overwhelming This learning path aims to soften the learning curve of Node for frontend developers and arm them with hands on learning that will leverage their JavaScript programming background

Building Scalable Apps with Redis and Node.js Joshua Johanan, 2014-09-25 If the phrase scalability sounds alien to you then this is an ideal book for you You will not need much Node js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework You will be building scalable Node js applications in no time Knowledge of JavaScript is required

Web Development with MongoDB and NodeJS Mithun Satheesh, Bruno Joseph D'mello, Jason Krol, 2015-10-30 Build an interactive and full featured web application from scratch using Node js and MongoDB About This Book Configure your development environment to use Node js and MongoDB Use Node js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node js and MongoDB to build full featured web applications A basic understanding of JavaScript and HTML is the only requirement for this book What You Will Learn

Configure your development environment to use Node.js and MongoDB. Write and configure a web server using Node.js powered by the Express.js framework. Build dynamic HTML pages using the Handlebars template engine. Persist application data using MongoDB and Mongoose ODM. Test your code using automated testing tools such as the Mocha framework. Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure. Explore Single Page application frameworks to take your web applications to the next level. In Detail, Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications, while MongoDB is the perfect fit as a scalable, high-performance, open-source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js along with its popular frameworks. **Style and approach** An easy guide to Node.js and MongoDB which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application. **Node.js**

By Example Krasimir Tsonev, 2015-05-25 If you are a JavaScript developer with no experience with Node.js or server-side web development, this book is for you. It will lead you through creating a fairly complex social network. You will learn how to work with a database and create real-time communication channels. **Your First Week With Node.js** James

Hibbard, Craig Buckler, Mark Brown, Nilson Jacques, James Kolce, Paul Orac, M. David Green, Florian Rappl, 2020-04-24 While there have been quite a few attempts to get JavaScript working as a server-side language, Node.js frequently just called Node, has been the first environment that's gained any traction. It's now used by companies such as Netflix, Uber, and PayPal to power their web apps. Node allows for blazingly fast performance thanks to its event loop model; common tasks like network connection and database I/O can be executed very quickly indeed. From a beginner's point of view, one of Node's obvious advantages is that it uses JavaScript, a ubiquitous language that many developers are comfortable with. If you can write JavaScript for the client-side, writing server-side applications with Node should not be too much of a stretch for you. This book offers a selection of beginner-level tutorials to provide you with an introduction to Node and its related technologies and get you under way writing your first Node applications. It contains: What Is Node and When Should I Use It; Build a Simple Page Counter Service with Node.js; Understanding module exports and exports in Node.js; Forms; File Uploads and Security with

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practices in Node js development Who is this for Frontend developers who want to transition to full stack development Backend developers who want to add Node js to their skillsets Anyone who wants to be a skilled Node js developer The book is designed to be easy to understand and accessible to anyone looking to learn Node js It provides a step by step gentle guide that will help you understand how to use Node js to build a web application Plus I take extra time to make sure my book is engaging and fun so you will stay motivated Book Content In the contents of this book we will cover Chapter 1 Introduction to Node js Chapter 2 Your First Node js Project Chapter 3 Introduction to Express and Morgan Chapter 4 Using EJS Templating Engine for Views Chapter 5 Using Tailwind and DaisyUI for CSS Chapter 6 Creating a MongoDB Database Cluster Chapter 7 Integrating Mongoose to Express Chapter 8 Implementing the MVC Pattern Chapter 9 Developing User Authentication Chapter 10 Validating Form Inputs and Displaying Messages Chapter 11 Adding Login and Logout Functionalities Chapter 12 Protecting Routes With Middlewares Chapter 13 Create Read Update and Delete Customers Chapter 14 Handling Invoices Data Chapter 15 Using Chart js On the Dashboard Chapter 16 Adding the Search Feature Chapter 17 Deploying Node js Application The goal of this book is to help you see how to develop an application using Node js We focus only on the essentials and immediately start a project once we cover the basic Node js knowledge You will see how Node js Express and MongoDB can be used to create a dynamic and scalable web application Requirements No prior knowledge of Node js is required to get the full benefit of this book but you do need some basic knowledge of JavaScript Accelerate Your Coding Journey Stop wasting your precious time trying to connect incomplete tutorials from different sources Instead use this book and gain the Node js knowledge you need to excel today Here s my promise You will know how to develop web applications using Node js

Node.js, MongoDB and AngularJS Web Development Brad Dayley, 2014

Annotation Node js MongoDB and AngularJS Web Development The definitive guide to building JavaScript based Web applications from server to browser Node js MongoDB and AngularJS are three new web development technologies that together provide an easy to implement fully integrated web development stack Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and AngularJS is quickly becoming the leading framework for MVC based front end development Together they allow web programmers to create high performance sites and applications built completely in JavaScript from server to client Node js MongoDB and AngularJS Web Development is a complete guide for web programmers who want to integrate these three technologies into full working solutions It begins with concise crystal clear tutorials on each of the three technologies and then quickly moves on to building several common web applications Readers will learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage AngularJS 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 Build server side web services in JavaScript Implement a MongoDB data store for your web

applications
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Ethan Brown, 2019-11-13
Build dynamic web applications with Express a key component of the Node JavaScript development stack
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Node.js Blueprints Krasimir Tsonev, 2014-06-16 A straightforward practical guide containing step by step tutorials that will push your Node js programming skills to the next level If you are a web developer with experience in writing client side JavaScript and want to discover the fascinating world of Node js to develop fast and efficient web and desktop applications then this book is for you

Reactive Programming with Node.js Fernando Doglio, 2016-12-09 Learn how to institute Reactive Programming RP for your back end development with Node js Up to now RP has most often been used in front end development but with its cutting edge approach you can also transform your back end programming Reactive Programming with Node js will show you the paradigms of RP why you should use it and the variations available to you You will learn how to use the main libraries necessary to provide an enhanced development experience in Node js including RxJS Bacon js Kefir js and Highland js You will also create a custom library that provides a variety of key features and learn how to scale up a system developed using RP in Node js Ideal for back end developers with knowledge of Node js or JavaScript this book enables you to get up and running with RP in Node js and revolutionize your back end development What You ll Learn Review the variations of Reactive programming Use the main libraries that provide this type of development experience in Node js Create a custom library Scale up a system developed using RP in Node js Who This Book Is For Any back end developers who understand Node js or are advanced enough to pick up the basics Ideal for developers who have an interest in learning about this different programming paradigm that s being used more and more every day

Pro Node.js for Developers Colin J. Ihrig, 2013-11-25 Since it s 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

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