



Practical Node.js

Building Real-World Scalable Web Apps

—
Second Edition
—

Azat Mardan

Apress®

Practical Node Js Building Real World Scalable Web Apps

Joshua Johanan



Practical Node Js Building Real World Scalable Web Apps:

Practical Node.js Azat Mardan, 2018-11-03 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 Mongoskin and Mongoose 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 Fully supported by a continuously updated source code repository on GitHub and with full color code examples learn what you can do with Node js and how far you can take it What You ll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha Expect and TravisCI Implement a third party OAuth strategy with Everyauth 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 Practical Node.js Jacob J. Peacock, 2015-08-08 Thought provoking and accessible in approach this updated and expanded second edition of the Practical Node js Building Real World Scalable Web Apps provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info@risepress.pw Rise Press

Practical Node.js Azat Mardan, 2014-07-17 Practical Node js is your step by step guide to learning how to build a wide range of scalable real world web applications using a professional development toolkit Node js is an innovative and highly efficient platform for creating web services But Node js doesn t live in a vacuum In a modern web development many different components need to be put together routing database driver ORM session management OAuth HTML template engine CSS compiler and many more 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 As a web developer you ll work with a varied collection of standards and frameworks Practical Node js shows you how all those pieces fit together Practical Node js takes you from installing all the necessary modules to writing full stack web applications by harnessing the power of the Express js and Hapi frameworks the MongoDB database with Mongoskin and Mongoose Jade

and Handlebars template engines Stylus and LESS CSS languages OAuth and Everyauth libraries and the Socket IO and Derby libraries and everything in between The book 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 Introduction to JavaScript Programming Professional Level CPA John kimani,Dr. James Scott ,2023-07-19

Introduction to JavaScript Manipulating Web Page Content with JavaScript Communicating with Web Servers Using JavaScript Object Oriented Programming in JavaScript Advanced JavaScript Programming Concepts Arrays and Objects Methods Control Structures and Functions in JavaScript Working with JavaScript Libraries and Frameworks **Node.js**

Projects Jonathan Wexler,2025-07-31 Whether you re a JavaScript beginner ready to build your first backend app or a self taught developer looking to grow beyond tutorials Node js Projects gives you the hands on experience you need Through a series of self contained projects ranging from content aggregators to secure password managers web scrapers ML backed analysis and an AI powered learning assistant you ll apply modern tools like Fastify MongoDB Redis JWT and Google s Gemini API in practical job relevant ways With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design You ll build confidence solving real world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns Confidently master async programming with async await and the Node js event loop Effectively design scalable APIs using Fastify and modular routing patterns Reliably manage data with the filesystem MongoDB and CSV output Securely implement authentication flows with JWTs and environment based configs Seamlessly integrate third party APIs like OpenAI and Google Gemini Efficiently build real time features with Redis schedulers and event driven logic Smoothly transition from prototype to production with modern Node js workflows **AI-Oriented Competency Framework for Talent**

Management in the Digital Economy Alex Khang,2024-05-29 In the digital driven economy era an AI oriented competency framework AIoCF is a collection to identify AI oriented knowledge attributes efforts skills and experiences AKASE that directly and positively affect the success of employees and the organization The application of skills based competency analytics and AI equipped systems is gradually becoming accepted by business and production organizations as an effective tool for automating several managerial activities consistently and efficiently in developing and moving the capacity of a company up to a world class level AI Oriented Competency Framework for Talent Management in the Digital Economy Models Technologies Applications and Implementation discusses all the points of an AIoCF which includes predictive analytics advisory services predictive maintenance and automated processes which help to make the operations of project management personnel management or administration more efficient profitable and safe The book includes the functionality of emerging career pathways hybrid learning models and learning paths related to the learning and development of

employees in the production or delivery fields It also presents the relationship between skills taxonomy and competency framework with interactive methods using datasets processing workflow diagrams and architectural diagrams for easy understanding of the application of intelligent functions in role based competency systems By also covering upcoming areas of AI and data science in many government and private organizations the book not only focuses on managing big data and cloud resources of the talent management system but also provides cybersecurity techniques to ensure that systems and employee competency data are secure This book targets a mixed audience of students engineers scholars researchers academics and professionals who are learning researching and working in the field of workforce training human resources talent management systems requirement headhunting outsourcing and manpower consultant services from different cultures and industries in the era of digital economy

[React Quickly](#) Azat Mardan,2017-08-20 Summary React Quickly is for anyone who wants to learn React js fast This hands on book teaches you the concepts you need with lots of examples tutorials and a large main project that gets built throughout the book Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Successful user interfaces need to be visually interesting fast and flowing The React js JavaScript library supercharges view heavy web applications by improving data flow between UI components React sites update visual elements efficiently and smoothly minimizing page reloads React is developer friendly with a strong ecosystem to support the dev process along the full application stack And because it s all JavaScript React is instantly familiar About the Book React Quickly is the tutorial for web developers who want to get started fast with React js Following carefully chosen and clearly explained examples you ll learn React development using your existing JavaScript and web dev skills You ll explore a host of different projects as you learn about web components forms and data What s Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node and author of several books on JavaScript Node React and Express Table of Contents PART 1 REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project Menu component Project Tooltip component Project Timer component PART 2 REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project Building a bookstore with React Router Project Checking passwords with Jest Project Implementing autocomplete with Jest Express and MongoDB APPENDIXES Appendix A Installing applications used in this book Appendix B React cheatsheet Appendix C Express js cheatsheet Appendix D MongoDB and Mongoose cheatsheet Appendix E ES6 for success

Real-World Next.js Michele Riva,2022-02-28 Learn how to use Next js for building web apps without compromising performance user experience and

developer happiness

Key Features

- Develop scalable web applications using Next.js
- Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with any headless CMS
- Deploy Next.js on different platforms such as Vercel, DigitalOcean, and AWS or on your own server

Book Description

Next.js is a scalable and high performance React.js framework for modern web development and provides a large set of features such as hybrid rendering, route prefetching, automatic image optimization, and internationalization out of the box. If you are looking to create a blog, an e-commerce website, or a simple website, this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience. Starting with the basics of Next.js, the book demonstrates how the framework can help you reach your development goals. You'll realize how versatile Next.js is as you build real-world applications with step-by-step explanations. This Next.js book will guide you in choosing the right rendering methodology for your website, securing it, and deploying it to different providers, all while focusing on performance and developer happiness. By the end of the book, you'll be able to design, build, and deploy modern architectures using Next.js with any headless CMS or data source. What you will learn:

- Get up to speed with Next.js essentials and learn how to build apps quickly
- Understand how to create scalable Next.js architectures
- Choose between different rendering strategies such as client-side rendering (CSR), static site generation (SSG), server-side rendering (SSR), and incremental static regeneration (ISR)
- Write unit tests and integration tests in your Next.js application
- Discover the powerful routing system and Next.js built-in components
- Design and build modern architectures with Next.js using GraphQL, CMS, or any headless CMS

Who this book is for

This book is for web developers who want to improve their React skills by building scalable and maintainable full-stack applications using the modern Next.js web framework. Intermediate-level knowledge of ES6, React, Node.js, and REST is assumed.

Building Real-Time Applications with Node.js

Nolan Brackenridge, Talon Fitzgerald, 2025-06-14

Create High Performance Real Time Web Apps with Node.js

Looking to build real-time applications that can scale seamlessly? Building Real-Time Applications with Node.js is your go-to guide for creating fast, scalable web apps that update in real time, all with the power of Node.js. Whether you're a developer seeking to understand Node.js in depth or looking to enhance your real-time app development skills, this book takes you through the entire process from basic concepts to advanced techniques. With step-by-step instructions and practical projects, you'll master real-time web technologies like WebSockets, Socket.io, and REST APIs to handle thousands of simultaneous users with ease.

What You'll Learn Inside Building Real Time Applications

- Understand the core concepts behind real-time apps and how to use Node.js to create them
- Using WebSockets and Socket.io
- Set up WebSockets to allow real-time bidirectional communication between the client and server
- Creating Scalable Architectures
- Design applications that can scale effectively to support a large number of concurrent users
- Developing APIs with Node.js
- Learn how to create robust REST APIs to handle requests efficiently
- Deploying Real Time Applications
- Understand how to deploy your real-time apps to the cloud with platforms like Heroku and AWS
- Handling Data in Real Time
- Use Redis, MongoDB, and other technologies to manage and store

real time data efficiently Why This Book Stands Out Step by Step Projects Learn by building practical applications like a real time chat app collaborative drawing app and live sports score tracker Beginner to Advanced Whether you re just starting with Node js or have some experience this book covers both basic concepts and advanced real time features Focus on Scalability Learn how to optimize your applications to scale effectively and handle thousands of simultaneous users Comprehensive and Practical Clear explanations and hands on coding examples guide you through creating real world applications from scratch Grab your copy now and start building scalable real time web applications with Node js today

Web Development with Go Shiju Varghese,2015-12-30 Take a deep dive into web development using the Go programming language to build web apps and RESTful services to create reliable and efficient software Web Development with Go provides Go language fundamentals and then moves on to advanced web development concepts and successful deployment of Go web apps to the cloud Web Development with Go will teach you how to develop scalable real world web apps RESTful services and backend systems with Go The book starts off by covering Go programming language fundamentals as a prerequisite for web development After a thorough understanding of the basics the book delves into web development using the built in package net http With each chapter you ll be introduced to new concepts for gradually building a real world web system The book further shows you how to integrate Go with other technologies For example it provides an overview of using MongoDB as a means of persistent storage and provides an end to end REST API sample as well The book then moves on to demonstrate how to deploy web apps to the cloud using the Google Cloud platform Web Development with Go provides Fundamentals for building real world web apps in Go Thorough coverage of prerequisites and practical code examples Demo web apps for attaining a deeper understanding of web development A reference REST API app which can be used to build scalable real world backend services in Go A thorough demonstration of deploying web apps to the Cloud using the Google Cloud platform Go is a high performance language while providing greater level of developer productivity therefore Web Development with Go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of Go *Learn Node. Js by Building 6 Projects* Eduonix Learning Solutions,2018-03-30 This is an advanced practical guide to harnessing the power of Node js by creating 6 full scale real world projects from creating a chat application to an eLearning system Key Features Develop scalable and lightweight applications using Node js Learn how to interface Node js with other popular technologies such as MongoDB MySQL and more Your companion to master the Node ecosystem through six real world projects Book Description With its event driven architecture and efficient web services capabilities more and more companies are building their entire infrastructure around Node js Node has become a de facto part of web development that any serious developer needs to master This book includes six Node js projects that gradually increase in complexity You ll start by building a simple web server and create a basic website You will then move to create the login system blog system chat system and e learning system By creating and

following the example projects in this book you ll improve your Node js skills through practical working projects and you ll learn how to use Node js with many other useful technologies such as ExpressJS Kickstart and Heroku What you will learn Create powerful applications using Node js Build scalable and lightweight web applications Use the Express Framework to build web applications Understand the coding principles behind practical web applications Understand the concepts of network programming Use Node js with other technologies including Kickstart and Heroku Use Node with database technologies Cassandra and MongoDB Who this book is for If you are a web developer or a student who wants to learn about Node js in a hands on manner this book will be perfect for you A basic understanding of HTML JavaScript and some front end programming experience is required

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

Mastering Node.js Caroline Davis,2023-04-29 This comprehensive guide takes you on a journey from the basics of Node js to the advanced concepts and techniques needed to build enterprise level web applications With step by step instructions and practical examples you ll gain a deep understanding of Node js and its core libraries including Express Socket IO and more But Mastering Node js is more than just a technical manual It s designed to help you think like a Node js developer providing you with the skills and insights needed to build complex applications that can handle heavy traffic and scale with ease From optimizing database queries to implementing security best practices this book covers all the critical areas of Node js development But what sets Mastering Node js apart is its focus on practical application Each chapter includes real world examples that demonstrate how to apply the concepts covered in the book to solve common web development challenges You ll learn how to build RESTful APIs handle websockets and integrate with third party services like AWS and Firebase Whether you re a seasoned developer looking to expand your skillset or a newcomer to Node js Mastering Node js is the ultimate guide to building scalable web applications With its comprehensive coverage practical examples and expert insights this book will help you take your Node js development to the next level Don t miss out on the opportunity to become a Node js expert and build high performance web applications Order your copy of Mastering Node js today

LEARN NODE.JS Diego Rodrigues,2024-11-02 This book is the ultimate guide for those who want to master Node js with a focus on modern secure and scalable backend development From environment setup to building complete APIs you will learn to use JavaScript on the server with real efficiency applying professional practices at every stage of the process With a didactic approach and practical focus the content covers asynchronous events Express js authentication WebSockets MongoDB automated testing microservices security deployment and more All oriented toward technical fluency and functional execution Includes Backend JavaScript fundamentals with a professional focus Building REST APIs with Express js and MongoDB Authentication with JWT session management and

cookies Real time communication with WebSockets and Socket io Production deployment with Heroku Docker and DigitalOcean Microservices architecture queues with Bull caching with Redis Automated testing security optimization and real performance By the end you will be ready to build robust and scalable backend applications with JavaScript integrating data APIs and services with fluency security and professional structure node js backend javascript api express mongodb authentication microservices rest scalability websocket security production redis jwt docker deploy Hands-On Microservices with JavaScript Tural Suleymani,2024-12-20 Build test and deploy scalable cloud ready apps using modern tools and solve complex real world problems with case studies Key Features Learn microservices architecture for scalable cloud ready applications Build hands on projects with Node js Express js NestJS and Kafka Master CI CD pipelines security and monitoring for robust microservices Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionKeep up with the ever evolving web development landscape by mastering JavaScript microservices with expert guidance from Tural Suleymani a full stack software engineer architect software development teacher Microsoft MVP and three time C Corner MVP He distills over a decade of experience crafting high performance scalable solutions into this guide He ll walk you through the fundamentals of microservices providing a solid foundation in architecture design principles and the necessary tools and technologies From beginners to seasoned developers this book offers a clear pathway to mastering microservices with JavaScript With the help of hands on tasks that simulate real world scenarios you ll learn how to build reliable and scalable microservices You ll explore synchronous and asynchronous communication real time data streaming and how to secure and monitor your services The book s emphasis on a design first approach ensures that your microservices are maintainable and future proof Detailed case studies from industry experts will enhance your learning experience and provide practical insights into building microservices in production environments By the end of this book you ll be ready to create cloud ready high performing microservices using cutting edge JavaScript frameworks and tools and tackle real world challenges ensuring your applications are secure and efficient What you will learn Understand synchronous and asynchronous communication between microservices Discover how to decouple microservices using Message Broker Build real time data streaming microservices with JS frameworks Understand logging and monitoring in microservices Explore common architectural patterns for microservices Cover microservices with unit and integration tests Apply CI CD for microservices and learn to Dockerize and deploy them Who this book is for This book is for backend developers full stack developers software architects and frontend developers who want to venture into the world of microservices A fundamental understanding of the JavaScript ecosystem will be helpful but not necessary as this book will cover the essentials of microservices architecture JavaScript programming and modern frameworks and tools for building scalable maintainable applications **Building Scalable Web Apps with Node.js and Express: Design and Develop a Robust, Scalable, High-Performance Web Application Using Node.js, Express.js, TypeScript, and Redis** Ravi Kumar,Yamini

Panchal,2024-06-24 Easy API Design Using Express js and Node js TypeScript Key Features Step by step instructions using TypeScript for efficient backend development on Node js enhancing code quality and maintainability Practical insights using Redis to implement efficient API caching methods optimizing performance and scalability Provides practical examples of API testing using Mocha and Chai ensuring robustness and reliability of the developed APIs Book DescriptionEmbark on a journey to become an expert in backend web development with this essential guide using Node js v20 Express js Redis and TypeScript The book covers foundational to advanced topics through one comprehensive example a project management system It ensures learning and application of skills in API caching with Redis API testing using Mocha and Chai and deployment on AWS This approach simplifies complex concepts and provides a practical learning trajectory With expert tips and best practices you ll create user friendly features like sign ups and project trackers Plus you ll learn how to make your apps faster with caching and add cool features like notifications Finally you ll ace testing and deploying your apps like an expert What you will learn Explore TypeScript s power and versatility for developing backend using Node and Express Learn effective strategies for planning and structuring your application to ensure scalability and maintainability Dive deep into building REST APIs for user management project handling and task tracking Explore the implementation of API caching to boost performance and efficiency Develop a notification module to enrich user interaction and experience within your application Master the art of thoroughly testing your APIs using industry standard tools and methodologies Acquire skills and best practices for deploying your application ensuring smooth operation in production environments Table of Contents1 Introduction to Node js 2 Introduction to TypeScript 3 Overview of Express js 4 Planning the App 5 REST API for User Module 6 REST API for Project and Task Modules 7 API Caching 8 Notification Module 9 Testing API 10 Building and Deploying Application 11 The Journey Ahead Index [Professional Node.js](#) Pedro Teixeira,2012-10-01 Learn to build fast and scalable software in JavaScript with Node js Node js is a powerful and popular new framework for writing scalable network programs using JavaScript This no nonsense book begins with an overview of Node js and then quickly dives into the code core concepts and APIs In depth coverage pares down the essentials to cover debugging unit testing and flow control so that you can start building and testing your own modules right away Covers node and asynchronous programming main concepts Addresses the basics modules buffers events and timers Explores streams file systems networking and automated unit testing Goes beyond the basics and shares techniques and tools for debugging unit testing and flow control If you already know JavaScript and are curious about the power of Node js then this is the ideal book for you [Full-Stack Web Development](#) THOMPSON. CARTER,2025-03-21 Take your web development skills to the next level with Full Stack Web Development Building Scalable Web Apps with React and Node js This hands on guide will teach you how to build dynamic real world web applications using two of the most powerful frameworks in the industry React and Node js Whether you re a beginner looking to break into web development or an experienced developer looking to enhance your full stack capabilities

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