Node.js Zero to Hero: Complete Learning Path

Table of Contents (Based on 2 Hours Per Day Study Plan)

• Middleware & Routing
• Handling Requests & Responses
• Serving Static Files
Day 14: Database Basics (2 hrs)
• Introduction to MongoDB & MySQL
Week 3: Database, Authentication & Security
Day 15-18: Database Integration (8 hrs)
• Connecting Node.js with MongoDB
• CRUD Operations with Mongoose
• Using MySQL with Node.js
Day 19-22: Authentication & Security (8 hrs)
• JWT Authentication
• Password Hashing (bcrypt)
• OAuth & Social Logins
• Securing API Routes
Week 4: Real-time Apps, Deployment & Advanced Topics
Day 23-24: Real-time Applications (4 hrs)
• WebSockets with `socket.io`
• Building a Real-time Chat App
• Streaming Data with Node.js
Day 25-26: Deployment & Performance Optimization (4 hrs)
• Environment Variables with `dotenv`
• Deploying to Heroku/Vercel
• Load Balancing & Caching
• Using PM2 for Process Management
Day 27-30: Advanced Topics (8 hrs)

• Microservices with Node.js
• GraphQL with Node.js
• Building RESTful & GraphQL APIs
• Testing with Jest & Mocha
Total Time Required
⏳ **40-60 hours** (Approx. **2 hours per day for 30 days**) to go from **zero to hero** in Node.js.