

# Backend with Node

## ▼ Section 1: Introduction to Backend and Node.js

1. Prerequisites
2. What Is Backend & Client Server Architecture?
3. CLI vs GUI
4. What Is Node.js and What Is It Used For?
5. Installing Node.js
6. Running Our First Node.js Code
7. Why Do We Need Node.js and How Is It Different From JavaScript in Browser?
8. A Brief History of Node.js

## ▶ Section 2: Basics of Terminal

## ▶ Section 3: Basics of OS

## ▶ Section 4: Fundamentals of Node.js

## ▶ Section 5: Data Representation in Computing

## ▶ Section 6: Mastering Buffers - Handling Binary Data in Node.js

## ▶ Section 7: Event-Driven Architecture and EventEmitter in Node.js

## ▶ Section 8: Node.js Streams - Handling Data Flow like a Pro

## ▶ Section 9: Basics of Computer Networking

## ▶ Section 10: Networking with Core Node.js Modules

## ▶ Section 11: Building RESTful CRUD APIs with Express.js

## ▶ Section 12: Mastering Database Management with MongoDB and Mongoose

## ▶ Section 13: Improving Our Codebase with MVC Architecture

## ▶ Section 14: Session Management, Login, and Authentication

- ▶ Section 15: Securing Our Node.js Application
- ▶ Section 16: Deploying Node.js Applications and CI/CD
- ▶ Section 17: Node.js Under the Hood
- ▶ Section 18: Working with Child Processes in Node.js
- ▶ Section 19: Scaling Node.js Applications with Clustering
- ▶ Section 20: Compression in Web Applications
- ▶ Section 21: Multithreading in Node.js
- ▶ Section 22: Cryptography in Node.js
- ▶ Section 23: Real-Time Communication with WebSockets
- ▶ Capstone Project: Building ProCodrr.com from Scratch