

Backend Development

Week 1–2: Node.js & Express

- Node.js runtime
- Express routing
- Middleware fundamentals

Week 3–4: Database with MongoDB

- Data modeling
- Mongoose basics
- Aggregation pipelines

Week 5–6: Authentication & Authorization

- JWT Authentication
- Role-Based Access Control
- SSO basics

Week 7–8: Testing & Logging

- Unit & integration tests
- Winston logging
- Error handling

Week 9–10: Docker & Deployment

- Dockerizing apps
- CI/CD pipelines
- Environment configs

Week 11–12: Capstone Project

- End-to-end backend project
- API documentation
- Deployment to cloud