

Backend Developer Roadmap 2025

Stage 1: Programming Language

- Choose one: JavaScript (Node.js), Python, Java, Go
- Learn syntax, OOP concepts, error handling

Stage 2: Version Control

- Git, GitHub workflows

Stage 3: Databases

- SQL: MySQL, PostgreSQL
- NoSQL: MongoDB, Redis

Stage 4: Backend Frameworks

- Node.js with Express.js
- Django/Flask (Python)
- Spring Boot (Java)

Stage 5: APIs

- REST API design principles
- GraphQL basics
- Authentication: JWT, OAuth

Stage 6: Deployment & DevOps

- CI/CD pipelines
- Docker, Kubernetes basics
- Cloud: AWS, Azure, GCP

Stage 7: Testing & Security

- Unit testing, integration testing



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- Security best practices: input validation, HTTPS

Stage 8: Projects & Portfolio

- Real-world backend apps
- API services, open-source contributions