

Spring Boot Backend Developer Roadmap (2025)

Phase 1: Java Fundamentals

- OOP, Java 8+ features, Streams, Collections

YouTube:

- Java Full Course | Telusko: <https://www.youtube.com/watch?v=ntLJmHOJ0ME>
- Java 8 Features | Telusko: <https://www.youtube.com/watch?v=1OpAgZvYXLQ>

Phase 2: Spring Boot Basics

- REST APIs, Spring Initializr, @RestController

YouTube:

- Crash Course | Amigoscode: <https://www.youtube.com/watch?v=9SGDpanrc8U>
- Full Course | Mosh: <https://www.youtube.com/watch?v=vtPkZShrvXQ>

Phase 3: Database Integration

- Spring Data JPA, Entity Mapping

YouTube:

- Spring Boot + MySQL | Amigoscode: <https://www.youtube.com/watch?v=Gx4iBLKLVHk>

Phase 4: Spring Security & JWT

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- Authentication, Authorization, JWT

YouTube:

- Security + JWT | Amigoscode: <https://www.youtube.com/watch?v=KxqlJblhzfl>

Phase 5: Testing & Validation

- JUnit 5, Mockito, Bean Validation

YouTube:

- Unit Testing | Amigoscode: https://www.youtube.com/watch?v=GrV3MTR_U6k

Phase 6: REST APIs & Best Practices

- REST Design, DTOs, Exception Handling

YouTube:

- Best Practices | Java Brains: <https://www.youtube.com/watch?v=Q-BpqyOT3a8>

Phase 7: Microservices

- Eureka, API Gateway, Config Server

YouTube:

- Microservices Full | Amigoscode: https://www.youtube.com/watch?v=8SGI_XS5OPw

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Phase 8: Docker & CI/CD

- Docker, Compose, GitHub Actions

YouTube:

- Docker | Amigoscode: <https://www.youtube.com/watch?v=XM7sE998Sw8>
- CI/CD | Java Techie: <https://www.youtube.com/watch?v=HoGjdz5Zr8w>

Phase 9: Apache Kafka

- Producers, Consumers, Spring Integration

YouTube:

- Kafka + Spring Boot | Java Techie: <https://www.youtube.com/watch?v=flkxAICjG8M>

Phase 10: Redis

- Redis Caching with Spring Boot

YouTube:

- Redis Cache | Java Techie: <https://www.youtube.com/watch?v=mW2ZxGbi3pk>

Phase 11: Elasticsearch

- Full Text Search, Spring Integration

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YouTube:

- Elasticsearch | Amigoscode: <https://www.youtube.com/watch?v=RBSGKIAvoiM>

Phase 12: RabbitMQ

- Messaging, Queues, Spring AMQP

YouTube:

- RabbitMQ | Java Techie: <https://www.youtube.com/watch?v=wQbEH4tVMJA>

Phase 13: Cloud Deployment

- AWS EC2, RDS, Monitoring with Prometheus

YouTube:

- AWS Deploy | Java Techie: <https://www.youtube.com/watch?v=E1S5G8y3FfI>