



techventive.io
US Engineering Studio

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JAVA DEVELOPER BOOTCAMP

Java *Developer*

6 weeks · Beginner+ to Intermediate · live + recorded

A hands-on Java curriculum covering modern Java (21 LTS), OOP, collections, streams, Spring Boot, JPA/Hibernate, REST APIs, microservices, testing with JUnit, build tools (Maven/Gradle), and production deployment — delivered by senior US enterprise Java engineers.

10

CORE MODULES

35+

PRACTICAL SKILLS

5+

PROJECT TRACKS

1:1

CAREER SUPPORT

The *production stack* you'll master

Each tool taught with the workflows and failure modes practitioners actually meet on the job.

01

Java 21 LTS
Modern Java

02

Spring Boot 3
Application framework

	03 JPA/Hibernate ORM
	04 Maven Build & dependencies
	05 Gradle Modern build
	06 JUnit 5 Testing
	07 Mockito Mocking
	08 PostgreSQL Relational DB
	09 Docker Containerization
	10 IntelliJ IDE

Foundation *modules*

First half of the curriculum – core fundamentals and the most common day-to-day skills.

- 01

Core Java

JVM basics, variables, types, control flow, methods, packages, exception handling, modern Java syntax (var, switch expressions).
- 02

OOP in Java

Classes, inheritance, polymorphism, interfaces, abstract classes, generics, records, sealed classes.
- 03

Collections & Streams

List, Set, Map, Queue, Deque, Stream API, lambdas, method references, Optional, parallel streams.

04

Build Tools

Maven lifecycle, pom.xml, dependencies, plugins, multi-module projects, Gradle basics for greenfield work.

05

Testing with JUnit 5

Assertions, lifecycle, parameterized tests, Mockito mocking, integration tests with TestContainers.

Freshers

Land your first Java dev role with a strong Spring Boot portfolio.

Enterprise Devs

Modernise from older Java (8, 11) to 21 LTS with Spring Boot 3.

Career Switchers

Move into enterprise Java — high demand in US banks, healthcare, insurance.

Polyglots

Add production Java to your existing toolkit.

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Advanced *modules*

Second half – production patterns, real-world operations, and the senior-level depth.

06

Spring Boot Fundamentals

Auto-configuration, starters, application.yml, profiles, beans, dependency injection, component scanning.

07

Spring Data JPA

Entities, repositories, query methods, JPQL, native queries, transactions, N+1 problem, lazy vs. eager.

08

REST APIs with Spring

Controllers, request mapping, validation, error handling, OpenAPI/Swagger, content negotiation.

09

Microservices Patterns

Service decomposition, REST vs. messaging, service discovery (Eureka), circuit breakers (Resilience4j), API gateway.

Deployment & Observability

Spring Boot Actuator, Micrometer + Prometheus, Docker images, deploying to Kubernetes / AWS ECS.

🔑 Hands-on project outcomes

- Build and deploy a Spring Boot REST API with JPA persistence.
- Decompose a monolith into 3+ microservices with proper boundaries.
- Write 80%+ tested Java code with JUnit 5 and Mockito.
- Diagnose and fix N+1 queries in Hibernate.
- Containerize and deploy a Spring Boot app to Kubernetes.
- Add Prometheus metrics and Grafana dashboards to a Java service.
- Build a multi-module Maven project end to end.
- Implement OAuth2 security in Spring Security.

🎓 Course learnings

- Modern Java (21 LTS) language features.
- Spring Boot 3 ecosystem from soup to nuts.
- JPA and Hibernate at production depth.
- Microservices patterns the enterprise way.
- Build tools — Maven primary, Gradle alongside.
- Production observability for JVM applications.

Career readiness, *built in.*

techventive.io turns this curriculum into job-ready positioning — project explanation, résumé and LinkedIn rewrites, GitHub portfolio polish, technical interview preparation, and placement-focused guidance through to the offer letter.

Java Developer
Spring Boot Engineer
Backend Engineer
Enterprise Java Developer
Microservices Engineer
Senior Java Engineer

Freshers

Enterprise Devs

Career Switchers

Polyglots

Start your Java Developer journey with techventive.io.

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