



JAVA TRAINING

Java Full Stack Spring Boot Angular Course

Master Java full-stack development with Spring Boot and Angular to build robust, modern web applications.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

-
- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

Dive deep into the world of modern web application development with the Java Full Stack Spring Boot Angular Course. This intermediate-level program is meticulously designed to equip you with the essential skills to build robust, scalable, and dynamic full-stack applications. You will master the backend using Java and the powerful Spring Boot framework for creating RESTful APIs, handling data persistence, and implementing security. Simultaneously, you will gain proficiency in frontend development using Angular, a leading platform for building rich, interactive user interfaces.

This course goes beyond theoretical concepts, emphasizing hands-on project work that integrates both the backend and frontend components. By the end of this training, you'll be capable of architecting, developing, and deploying enterprise-grade web applications from conception to completion. This comprehensive skill set is highly sought after in today's tech landscape, positioning you for significant career advancement and the ability to tackle complex development challenges with confidence.

Duration	2 hours
Level	Intermediate
Vendor	Java

COURSE CURRICULUM

01 Module 1: Java & Spring Boot Fundamentals

- Core Java Concepts Review (OOP, Collections, Streams)
- Introduction to Spring Framework and Spring Boot
- Setting up a Spring Boot Project with Spring Initializr
- Dependency Injection and Inversion of Control in Spring
- Introduction to Spring Data JPA for Database Interaction

02 Module 2: Building RESTful APIs with Spring Boot

- Principles of RESTful Service Design
- Creating Controllers, Services, and Repositories
- Handling HTTP Methods (GET, POST, PUT, DELETE)
- Request and Response Handling, JSON Serialization
- Data Validation and Exception Handling
- Introduction to Spring Security for API Authentication

03 Module 3: Angular Core Concepts

- Introduction to TypeScript for Angular Development
- Setting Up Angular Projects with Angular CLI
- Components, Modules, and Templates
- Data Binding and Event Handling in Angular
- Angular Routing and Navigation
- Pipes and Directives

04 Module 4: Advanced Angular & Backend Integration

- Angular Services and Dependency Injection
- Communicating with RESTful APIs using Angular HttpClient
- Observables and RxJS for Asynchronous Operations
- Form Handling: Template-Driven and Reactive Forms

- Implementing User Authentication and Authorization in Angular
- Error Handling Strategies for Frontend and Backend

05 Module 5: Deployment & Best Practices

- Connecting Angular Frontend with Spring Boot Backend
- Cross-Origin Resource Sharing (CORS) Configuration
- Introduction to Unit Testing (JUnit for Spring, Jasmine/Karma for Angular)
- Containerization Basics with Docker for Full Stack Applications
- Deployment Considerations for Production Environments (e.g., Cloud Platforms)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Full Stack Java Developer (Enterprise Web Applications)**
- > **Backend API Developer (Spring Boot Microservices)**
- > **Frontend Angular Specialist (with API Integration)**

FREQUENTLY ASKED QUESTIONS

Q: What specific project will I complete to demonstrate my full-stack proficiency after this course?

Upon completing this course, you will build a complete end-to-end full-stack application, such as an e-commerce platform, a task management system, or a social media clone. This project will integrate a Spring Boot REST API backend with an Angular frontend, showcasing your ability to design databases, implement business logic, create secure APIs, and develop interactive user interfaces, providing a tangible portfolio piece for potential employers.

Q: Do I need prior experience with Java or Angular to enroll in this intermediate-level course?

While this is an intermediate course, a foundational understanding of core Java programming concepts (object-oriented programming, data structures, basic syntax) and basic web development principles (HTML, CSS, JavaScript) is highly recommended. No prior experience with Spring Boot or Angular is strictly required, as the course will cover these specific technologies from the ground up, assuming a solid general programming background.

Q: How does this course prepare me for the demands of a modern full-stack development role compared to separate backend or frontend courses?

This integrated course is specifically designed to bridge the gap between backend and frontend development, a critical skill for modern full-stack roles. Instead of learning technologies in isolation, you'll learn how Spring Boot and Angular seamlessly interact, manage data flow, handle authentication across layers, and deploy a unified application. This holistic approach ensures you can contribute effectively to all tiers of a web application and understand the entire development lifecycle, making you a more versatile and valuable developer.

ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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