JAVA TRAINING

Github Copilot With Java Course

Master Github Copilot to accelerate Java development, writing efficient code faster.

DURATION
2 hours

LEVEL
Intermediate

FORMAT
Instructor-Led

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

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COURSE OVERVIEW

This intermediate-level "GitHub Copilot with Java Course" from Computer Pride is meticulously designed to equip Java developers with the knowledge and practical skills to harness the power of AI-assisted coding. In today's fast-paced development landscape, leveraging intelligent tools like GitHub Copilot can significantly boost productivity, improve code quality, and accelerate project delivery. This 2-hour intensive course will guide you through integrating Copilot into your Java development workflow, showcasing its capabilities in generating boilerplate code, suggesting intelligent completions, and assisting with complex logic, all tailored specifically for Java applications. You will delve into core technologies such as Java, modern IDEs (like IntelliJ IDEA or VS Code with Java extensions), and, of course, GitHub Copilot. The curriculum focuses on practical application, demonstrating how Copilot can write unit tests, refactor existing Java code, and even help debug by suggesting fixes or alternative implementations. By the end of this course, you'll be adept at using Copilot as an indispensable pair programmer, empowering you to write cleaner, more efficient Java code with unprecedented speed and confidence, ultimately enhancing your value as a developer.

Duration	2 hours
Level	Intermediate
Vendor	Java

COURSE CURRICULUM

01 Module 1: Introduction to GitHub Copilot for Java

- Understanding GitHub Copilot's core functionality and benefits
- Setting up GitHub Copilot in common Java IDEs (IntelliJ IDEA, VS Code)
- Basic configuration and managing Copilot suggestions
- Ethical considerations and best practices for AI-assisted coding

02 Module 2: Accelerating Java Code Generation

- Generating boilerplate code (classes, methods, constructors, getters/setters)
- Intelligent code completions for Java syntax and API usage
- Using Copilot for common Java API calls and framework integration (e.g., Collections, Streams)
- Converting natural language comments into functional Java code snippets

03 Module 3: Advanced Copilot for Java Development Workflows

- Leveraging Copilot for unit test generation (JUnit, Mockito)
- Assisting with code refactoring and applying design patterns
- Debugging support: understanding error messages and suggesting fixes
- Working with complex data structures and algorithms using Copilot assistance

04 Module 4: Integrating Copilot into Java Projects

- Practical examples in Spring Boot applications with Copilot
- Using Copilot effectively with Maven/Gradle build tools
- Tips for maximizing Copilot's effectiveness in larger Java codebases
- Understanding and managing Copilot's output for security and quality assurance

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Productivity-Focused Java Developer**

> **AI-Assisted Software Engineer**

> **Backend Developer specializing in modern tooling**

FREQUENTLY ASKED QUESTIONS

Q: What level of Java proficiency is required before enrolling in this Copilot course?

This "GitHub Copilot with Java Course" is designed for intermediate Java developers. You should have a solid understanding of core Java concepts, object-oriented programming (OOP) principles, and experience working with a Java IDE. While prior experience with GitHub or other AI tools is not strictly required, a foundational understanding of Java development will allow you to maximize the benefits of learning Copilot's advanced features and applying them effectively.

Q: How specifically will GitHub Copilot enhance my ability to develop Spring Boot applications?

This course will demonstrate how GitHub Copilot can significantly accelerate Spring Boot development. You'll learn to use Copilot for quickly generating common components like REST controller endpoints, service layers, repository interfaces, and even basic DTOs. It will also assist in configuring application properties, suggesting relevant Spring annotations, and generating boilerplate code for data access or security, enabling you to build and iterate on Spring Boot features much faster and with greater confidence.

Q: Can Copilot help me with Java code reviews or identifying potential bugs in my existing projects?

While GitHub Copilot is primarily a code generation and completion tool, this course will cover how you can strategically leverage it for improving existing Java code. You'll learn techniques for using Copilot to suggest alternative implementations, refactor complex methods into more readable ones, and even generate potential test cases that might expose edge-case bugs. It acts as an intelligent pair programmer, offering context-aware suggestions that can prompt you to review and refine your code more effectively, indirectly aiding in quality improvement.

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+	10,000+	50+
Years of Excellence	Professionals Trained	Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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