

# Java Developer Program

THIS SYLLABUS IS FOR ILLUSTRATIVE PURPOSES ONLY. DUE TO OUR CONSTANT UPDATES, THERE MAY BE MINOR DIFFERENCES BETWEEN THIS SYLLABUS AND THE PROGRAM.



# About the course

A five-month, beginner-friendly training for those who want to start a career in IT but have little to no experience with software development.

## You'll gain

The course will teach you everything you need to land a tech job. You'll learn the fundamentals of the software development, and be able to develop console and web applications.

This program will teach you about databases, web protocols, linux consoles, CI/CD and more.

## Not only hard skills

This course teaches not just technical skills, but also soft skills required for a successful career in IT.

Among the skills you'll learn are teamwork, time management, goal setting, and more.

## Practise focused

You'll learn only what you need to know to do real developer work.

We're here to help you land your dream job in IT. Because of that, this program also includes career-focused lessons.

# Module 1: Introduction to algorithms and programming with Java

This module starts with a look at programming fundamentals and problem-solving approaches. Using Scratch as a starting point, they'll learn essential concepts like variables, logical operators, and loops.

Next, we'll explore Java's structure, development tools, and the importance of version control with Git. Coding practices, debugging techniques, and applying programming knowledge are emphasized throughout.

All concepts are integrated into a module-level project

**Delivery Format:** 9 webinars

# Module 2: Java core and testing fundamentals

In this block, students will deepen their Java expertise, progressing from methods and abstraction to handling exceptions. The course continues with lessons on classes, objects, encapsulation, and generics, fostering a deeper understanding of object-oriented programming.

With a Java practice session, you'll put everything you've learned into practice. Lessons further explore Java collections, inheritance, polymorphism, and introduce essential tools like Maven, Lombok, and the JUnit testing framework. Students learn about file operations, lambda expressions, and functional interfaces.

All concepts are integrated into a comprehensive project

**Delivery Format:** 10 webinars

# Module 3: Introduction to Spring framework and software engineering best practices

In this module, students explore client-server architecture, REST API, and HTTP requests in Java. Lessons advance to CI/CD principles, Docker, Linux console usage, and SQL database management. Students will learn project planning, Spring framework basics, and how to use Docker-compose and Flyway.

The next sessions cover testing strategies, including unit tests with MockMvc and integration tests with test containers.

Finally, you'll build a Telegram bot and backend service, implement CI/CD with GitHub Actions, and deploy applications to a cloud server.

**Delivery Format:** 11 webinars

# Module 4:

# Getting ready for employment

## Career Prep

Find all the information you need about landing your dream job. Before applying for jobs, you need to cover some basics.

Create a portfolio, build an online presence with LinkedIn, plan your job search, and grow your network. After that, you'll work on your resume, cover letter, interviews, and negotiate offers.

Delivery Format: 4 webinars

# Course Summary

34 online workshops

4 portfolio projects

248 hours in total



{ LEARN }

< PRACTISE >

GET HIRED ./