



Full-Stack Java: Spring Boot & React Microservices

OFFICIAL ACADEMIC PROSPECTUS & CURRICULUM GUIDE

NQF Level: Industry Certification | **Credits:** N/A

Delivery: Online

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PROGRAMME OVERVIEW

PROGRAMME DURATION	10 Weeks
ACADEMIC LEVEL	Industry Certification
TOTAL CREDITS	N/A
SAQA REGISTRATION	Pending
MODE OF DELIVERY	Online
TOTAL INVESTMENT	R 12,000 (Registration Deposit: R 799)

Executive Introduction

In the world of massive, mission-critical corporate software—from global central banks to giant international retailers—Java is the undisputed, undefeated king. Our Full-Stack Java programme is an elite, high-intensity track designed specifically for those who want to build the planet's most resilient and secure software systems. We focus intensely on the modern evolution of Java: Spring Boot REST backends completely decoupled from React frontends within a highly scalable microservices architecture.

Participants will master the highly complex art of decoupling massive monolithic legacy applications into agile, independent services that can scale and fail independently without bringing down the system. The curriculum is centered around 'Enterprise Scalability,' teaching you how to build robust, high-throughput APIs with Spring Data JPA and secure them tightly with Spring Security and OAuth2. You will also explore the deep intricacies of React state management, Redux, and custom hooks, ensuring your frontends are just as agile, fast, and resilient as your backends.

Through code-heavy workshops, you will physically architect, containerize, and deploy live distributed systems using Docker. You will graduate as an elite Full-Stack Architect ready to join the high-performance engineering teams at Fortune 500 companies, possessing the incredibly rare and specialized technical skills required to build the massive, fault-tolerant financial and logistics platforms of the future.

PURPOSE OF THE LEARNING PROGRAMME

To produce the world's elite 'Enterprise-Grade' software architects and senior developers. The primary purpose of this track is to equip engineers with the highly specific technical skills required to build distributed, failsafe systems for global corporations.

To master the absolute future of 'Microservices and Cloud-Native' Java development. We aim to train engineers who can build decoupled, highly resilient services that offer unparalleled scalability and absolute resilience in high-demand, high-stress server environments.

To bridge the complex communication gap between massive server backends and highly responsive user frontends. The objective is to produce developers who can securely architect the entire data flow—from the highly restricted enterprise database all the way to the user's local browser.

To command absolute authority in enterprise software strategy and deployment. This programme provides the deep knowledge required to lead massive technical teams in the development of mission-critical systems for the global finance, banking, and logistics sectors.

To optimize the resilience and performance of global corporate software platforms. We aim to produce architects who can expertly orchestrate massive Java deployments that perfectly balance extreme performance with absolute stability, protecting organizations from catastrophic downtime.

MODULE BREAKDOWN

Module 00: Orientation & Student Portal Onboarding

Mandatory setup: Email, Portal, Labs & PoE guidelines.

Module 01: Java Advanced & OOP Principles

Comprehensive mastery and practical application of java advanced & oop principles aligning with industry standards.

Module 02: Spring Boot & Dependency Injection

Comprehensive mastery and practical application of spring boot & dependency injection aligning with industry standards.

Module 03: Microservices Architecture & Docker

Comprehensive mastery and practical application of microservices architecture & docker aligning with industry standards.

Module 04: React Frontend & State Management

Comprehensive mastery and practical application of react frontend & state management aligning with industry standards.

Module 05: Enterprise Security (OAuth2/OIDC)

Comprehensive mastery and practical application of enterprise security (oauth2/oidc) aligning with industry standards.

Module 06: WIL: Deploy a Distributed Banking System

Comprehensive mastery and practical application of wil: deploy a distributed banking system aligning with industry standards.

PRACTICAL LAB ENVIRONMENTS

This programme includes intensive hands-on practical labs designed to bridge the gap between theoretical knowledge and real-world industrial application.

Lab 1: Spring Boot Microservice Scaffold

Create service with Spring Initializr. Deliverable: Service code + Actuator endpoints.

Lab 2: React Frontend with Axios

Build UI that consumes Spring Boot API. Deliverable: React component + API integration code.

Lab 3: Service Discovery & API Gateway

Configure Eureka and Spring Cloud Gateway. Deliverable: Gateway config + service registry screenshot.

Lab 4: Distributed Tracing & Resilience

Implement Sleuth, Zipkin, and Resilience4j. Deliverable: Trace dashboard + circuit breaker test report.

CAREER FIELDS & OPPORTUNITIES

Graduates of this learning programme are aggressively equipped with the specialized competencies required to pursue the following elite professional roles within the global industry:

JAVA FULL-STACK DEVELOPER	Advance your career as a Java Full-Stack Developer in the industry.
MICROSERVICES ENGINEER	Advance your career as a Microservices Engineer in the industry.
ENTERPRISE APP DEVELOPER	Advance your career as a Enterprise App Developer in the industry.
SPRING BOOT SPECIALIST	Advance your career as a Spring Boot Specialist in the industry.
REACT/JAVA ARCHITECT	Advance your career as a React/Java Architect in the industry.
CLOUD-NATIVE JAVA DEVELOPER	Advance your career as a Cloud-Native Java Developer in the industry.
API GATEWAY INTEGRATION ENGINEER	Advance your career as a API Gateway Integration Engineer in the industry.

NEXT STEPS & APPLICATION

Ready to definitively advance your professional trajectory? Formal applications are currently open for the upcoming academic cycle. To securely guarantee your placement in the next intake for **Full-Stack Java: Spring Boot & React Microservices**, please complete our online application process or contact our admissions advisory team directly.

CONTACT ADMISSIONS

Official Email: apply@softkingsacademy.co.za

Academy Website: www.skacademy.co.za

WhatsApp: +27 69 271 9901

Tel: +27 21 1097 366 | +27 12 004 3732 | +27 70 5422 373

DIGITAL STUDENT PORTALS

Studentzone: portal.skacademy.co.za

Exam Centre: exams.skacademy.co.za

Verify Certificate: skacademy.co.za/verify-certificate

APPLY ONLINE NOW

SOFTKINGS ACADEMY IS FORMALLY COMMITTED TO PROVIDING INDUSTRY-LEADING, ACCREDITED SKILLS DEVELOPMENT.

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INFORMATION CONTAINED WITHIN THIS PROSPECTUS IS CORRECT AT THE TIME OF PRINTING.