

# Abdallah Ahmed Alseddek

## Software Engineer

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## Summary

Java Software Engineer with 3+ years of experience building high-scale integration and microservices solutions using Java, Spring Boot, Apache Camel, Kafka, and TIBCO. Delivered systems handling 500K+ TPS, migrated legacy architectures to open-source stacks, and designed enterprise integration patterns across multi-cluster environments. Strong in performance tuning, containerization, and distributed systems.

## Skills

- **Backend & Java:** Java 8–17, Spring Boot, Spring MVC, Spring AOP, Hibernate/JPA, Concurrency, Actuator, Spring Boot Admin, Spring AI
- **Integration & Messaging:** Apache Camel, ActiveMQ, Kafka (Confluent), TIBCO BW/EMS, JMS, REST, SOAP
- **DevOps & Cloud:** Docker, OpenShift, Helm, Jenkins CI/CD, GitHub Actions, AWS (EC2, S3-bucket)
- **Databases:** PostgreSQL, OracleDB, JDBC, Batch Processing
- **Tools & Protocols:** XML, XSD, JAXB, SMPP, WireMock, Microcks

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer — Vodafone (May 2025 – Present)

- Developed enterprise-grade integrations using Apache Camel (Java DSL) across REST, Kafka, and SMPP routes.
- Implemented advanced EIP patterns (Recipient List, Aggregator), improving multi-system orchestration efficiency.
- Led migration of legacy TIBCO BW5 services to Spring Boot & Apache Camel, designing shared libraries for reusable authentication, logging, and throttling.
- Delivered MNP (Mobile Number Portability) rejection flows aligned with NTRA 2025 regulations.

### Integration Software Engineer — Vodafone (May 2024 – May 2025)

- Built a centralized logging platform processing over 500K requests/second from 2,000+ APIs, routing logs to DB, Kafka, and Elasticsearch.
- Set up multi-cluster Kafka environments using KRaft, implementing JDBC/Elastic connectors for enterprise data streaming.
- Replaced legacy TIBCO EMS with REST-based microservices, achieving higher scalability and reduced downtime.
- Designed optimized batch processing using Spring JDBC for high-throughput financial transactions.

### Java Developer — Techno-Verse (Aug 2023 – Apr 2024)

- Implemented Command Pattern and dynamic-bean architecture to integrate Slack Bot with Odoo via Apache XML-RPC.
- Compared WireMock and Microcks for mocking and simulation, selecting the optimal strategy based on use-case.
- Integrated KillBill Java client for subscription and billing management.

### Java Developer (Internship) — Attractik (Nov 2021 – Jan 2022)

- Worked in a digital Healthcare service to enhance and improve some functions.
- Integrated a Desktop UI developed in JavaFX with Spring Boot backend modules for system operation.

- It has fostered collaboration with cross-functional teams, ensuring seamless functionality and an enhanced user experience within the company's projects.

## Projects

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### Spring Boot Migration (Vodafone, 2025)

- Designed a migration framework converting TIBCO BW5 services to modern Spring Boot + Camel.
- Built a shared library for schemas, logging, authorization (via AOP), throttling, and async JMS/HTTP logging.
- Developed Helm deployment templates and XSD-to-POJO pipelines using JAXB.

### Multi-Cluster Kafka Environment | Vodafone | Aug 2024

- Built an event-driven platform with REST Proxy, JDBC/Elastic connectors, and Confluent Control Center.

## Certifications & Awards

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- ICP Agile Fundamentals (Vodafone - 2025)
- Vodafone Top Performer | 2025
- Awarded as Vodafone Star | 2025
- Apache Kafka For Beginners | Udemy | 2024
- JMS Fundamentals Course | Udemy | 2024
- Certificate of Completion ( Participation in 6 months membership program ) | Dec 2023 - Jun 2024
- Spring Framework Beginner to Guru | Udemy

## Education

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- **Bachelor's Degree in Electrical Power Engineering** Sept 2016 - Jun 2021  
Faculty of Engineering, Mansoura University.

## Others

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- participate as a problem-solver **@ICPC-Mansoura-Community**, Sep 2020 - Feb 2021
- Volunteer as a **speaker** @Hanesha-sah Team, Feb 2017 - Aug 2018
- **Military Status**: completed in March 2023.