Abdallah Ahmed Alseddek
Software Engineer

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Summary

Results-driven Java Software Engineer with expertise in building scalable applications using Java, Spring Boot, and Microservices. Skilled in API integration, database management (PostgreSQL, OracleDB, JPA), and containerization (Docker, OpenShift). Experienced with RabbitMQ, performance tuning, Agile, and DevOps practices, delivering efficient, high-quality solutions.

Skills

- Java
- Spring Boot
- Spring AOP
- Spring Actuator
- Spring Boot Admin
- Hibernate/JPA
- Version Control (Git)

- Message Queues (RabbitMQ)
- Kafka (Confluent)
- XML, XSD, JAXB
- Tibco BW, Tibco EMS
- SOAP, Rest, JMS
- Docker, OpenShift, Helm
- Microservices Architecture

- RESTful API Development
- Database Management
- Agile Methodology
- Concurrency Programming
- CI/CD(Jenkins)
- Apache Camel

Experience

- **Senior Integration Engineer @ Vodafone**   May 2025 - present
  - **Migrating legacy microservices to Apache Camel and Spring Boot 3X,** ensuring a convenient logging structure. Abstract common features in a shared dependency that carries resources, filters, authentication, and throttling. **Automate deployments** by introducing service containerization (Docker, Helm templates, OpenShift) and a Jenkins CI/CD pipeline.
  - Designed a **migration architecture** for revamping TIBCO BW5 applications to open-source technologies like Spring Boot and Apache Camel. **Led the migration of critical services**, ensuring a seamless transition while maintaining system integrity.
  - Develop MNP (Mobile Number Portability) rejection reasons that apply NTRA's 2025 regulations.

  Integration Engineer @ Vodafone   May 2024 - May 2025
  - Develop and implement new features for Vodafone Innovate Projects, using Java Spring Framework and TIBCO BusinessWorks (BW) for seamless system integration.
  - Build a centralized logging application that listens to two thousand APIs at a time, extracting transaction KPIs, and then saving logs in DB, Kafka, or ElasticSearch. It handles about 500K requests per second. Technologies: Spring Boot, JDBC, Kafka, and Reactive Web. Implement resilience4J for retry and fallback scenarios.
  - Participated in setting up a **Kafka Confluent multi-cluster** with KRaft for testing and production environments. Set up connectors to integrate with multiple systems [JDBC source connector, ElasticSearch sink connector]
  - Worked on enterprise messaging systems, replacing TIBCO EMS with REST-based microservices for better scalability with minimal downtime.
  - Designed **batch processing strategies** using **Spring JDBC,** optimizing high-throughput transactions.

- **Java Developer @Techno-Verse**   Aug 2023 - April 2024
  - Implemented Command Design Pattern and used Dynamic Beans in a Spring-Boot service that integrates with Slack Bot and Odoo server. Used Apache XmlRpc for posting data to Odoo server hr module.
  - Compare WireMock and Microcks to decide which fits our needs: mock APIs and simulate different HTTP and JMS **services**.
  - Managed customer payments and subscriptions using the KillBill Java client.

- **Java Developer @ Attractik [Internship]**   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.

- **Mentorship: Software Engineering and Java Development | 6 Months**
  - Acquired in-depth knowledge of Software Engineering principles, including the full lifecycle of analysis, design, and development of software solutions.
  - Implemented a Java-based E-commerce application, transitioning from a monolithic architecture to a microservices-based solution to improve scalability and maintainability.

Projects

- **Spring Boot Migration** (migrate Tibco bw to Open source) **| Vodafone | Jan 2025**
  - ○ **Overview:** Migrate legacy Tibco BW application starting by building A shared Library [Not Executable Jar] that carries all common processes, schemas/models. To provide a centralized Code base that is easy to maintain and prevents redundancy. Design A Migration Template for developers to follow, ensuring our organization's development/deployment criteria are met.
  - ○ **Key functionalities**:
    - Implement **Spring Boot Admin** for monitoring, health checks, and providing metrics.
    - **Log Async**: Custom annotation Aspect to catch req, res, and log them through JMS/HTTP endpoint
    - Implement a **Throttling Rate Limit** to APIs using AOP that pulls the service rate limit from a DB and decides whether to accept the request or user has exceeded their limit.
    - Revamp the **authorization** method to be done using Spring Aspect around a custom annotation.
    - Implement A **Bridge between Tibco legacy apps and Spring Boot modern** to facilitate the migration process. So the legacy and new versions of a service can work alongside if needed.
    - Convert **XSD schemas to POJO** classes using the JAXB library and Oxygen XML.
    - Implement the helm template to override the services vars in the containerization phase to deploy on OpenShift.
- **Multi-Cluster Kafka Environment | Vodafone | Aug 2024**
  - ○ **Overview**: Set up A Kafka testing and production environment to employ the event-driven architecture, where systems produce/listen to their events in real time.
  - ○ **Key functionalities**:
    - **Connectors cluster** to implement multiple source/sink connectors depending on the cases. Ex: JDBC Connector, ElasticSearch Connector, JMS connector.
    - **Rest Proxy** to be a bridge for non-supported Kafka native systems.
    - Confluent **Control Center**: to facilitate business exploration and requirements through a fancy UI.
- **Javeats-Lites: Restaurant Management System, [CODE]**
  A Collaborative development project that optimizes restaurant operations by integrating user and restaurant registration, order processing, menu management, billing, and reporting features.
  Technologies: Java 11, PostgreSQL, Docker, Spring Framework, Open API, and Domain-Driven Design.

Certifications & Awards

- **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

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

Others

- 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.