Taiwo Oyewole

Senior Software Engineer
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Portfolio

Professional Summary

Results-driven Senior Java Developer with over 7 years of hands-on Java EE and Core Java experience in designing and delivering robust enterprise cloud-native applications. Proven leadership qualities with a track record of coordinating cross-functional teams, mentoring developers, and translating technical designs into workable solutions.

Skills

- **Languages:** Core Java, JavaScript, TypeScript, Python, SQL
- **Technologies and Tools:** Spring Boot, Java/J2EE, Nodejs, NestJS, Angular, React, React Native
- **Cloud/DevOps:** AWS (EKS, EC2, S3), Docker, Kubernetes, GitHub Actions, Jenkins, Linux
- **Databases:** MongoDB, PostgreSQL, Oracle, Microsoft SQL
- **API Design:** REST, GraphQL, SOAP
- **Practices:** Agile, CI/CD, TDD, Observability
- **Messaging/Streaming:** Kafka, RabbitMQ, ActiveMQ
- **Architecture:** Microservices, Event-Driven Design, Distributed Systems

Professional Experience

Fullstack Software Engineer - Stellar Sync   May 2025 - Present
A technology company providing strategic IT consulting and cutting-edge solutions to help organizations unlock their potential

- Architected containerized microservices using multi-stage Docker builds with Alpine Linux, reducing image size by 60% and implementing cloud-ready architecture with Kubernetes orchestration capabilities.
- Implemented Strategy Pattern for multiple AI provider integrations (Gemini, ChatGPT) with fault-tolerant architecture, ensuring graceful degradation and 99% system reliability when AI services are unavailable.
- Architected enterprise pension management system using Nodejs using Typescript with Redis caching, TypeORM, and inter-service communication, processing financial data for government agencies and pension fund administrators.
- Implemented multi-tenant RBAC system with JWT authentication, custom guards, and granular privilege management for financial sector compliance, ensuring secure access control across government agencies.

AI Software Engineer - Tetra Tech (Academic Project)   Jan 2025 - Apr 2025
A global consulting firm providing engineering and environmental services

- Built a high-performance, AI-driven pavement classification system using PyTorch/TensorFlow, deployed via MLflow, supporting both real-time and batch processing across multiple device types (CUDA, MPS, CPU).
- Designed scalable microservices with FastAPI and RabbitMQ, enabling parallel processing and improving system throughput by 300%.

Senior Software Engineer | Tech Lead - Seamfix   Jan 2024- Mar 2025

A technology company specializing in access and identity security solutions

- Spearheaded architectural design sessions and made strategic technical decisions that optimized scalability and maintainability.
- Led migration of legacy Core Java EE applications (JSP/J2EE) to Spring Cloud architecture, improving security with Spring Gateway and Spring Security, scalability of the system, and maintenance.
- Performed performance tuning on new services using VisualVM to monitor metrics and achieve optimal configuration for maximum throughput under load.
- Designed and implemented a high-performance background job using SpringBoot and Spring Batch to process and validate millions of registration records, optimizing throughput and ensuring data integrity for large-scale batch operations.

Software Engineer - Seamfix   Aug 2019 - Dec 2023

A technology company specializing in access and identity security solutions

- Transitioned from JSP (Java Server Pages) to Angular while supporting new features.
- Integrated into machine learning models (such as Facial matching, fingerprint matching, Picture-in-picture validation, etc) using Spring Boot to ensure regulatory compliance.
- Developed Event Driven Pattern using Kafka to process or reprocess failed registration, to improve registration capture time and scalability.
- Managed full lifecycle development including database design, normalization, indexing strategies, and performance tuning for enterprise-scale applications handling 1M+ daily transactions.
- Scaled the WebSocket infrastructure using RabbitMQ to distribute connections across multiple servers, improving system reliability and performance.

Software Engineer - Coronation Registrar   Apr 2018- Dec 2019

A leading Nigerian securities and asset management company

- Designed and implemented a distributed caching system using Redis, decreasing average API response time by 30%.
- Implemented role-based access control using Spring Security and Keycloak creating a single sign-on solution between a suite of applications.
- Integrated Paystack and Hydrogen payment gateways to implement and manage recurring billing and subscription-based payment workflows, ensuring secure and reliable transactions.
- Implemented rate limiting using Redis Lua Script to protect the system from DOS attacks.
- Containerized the applications using Docker and deployed using AWS Kubernetes EKS.
- Implemented asynchronous communication using ActiveMQ with Spring Framework, Spring Integration, and Spring Boot to enable reliable message queuing and event-driven processing.

Projects

- **CapTable By Coronation:** Developed a system that streamlines equity management, automates share calculations, and provides powerful financial modeling tools.
- **Biosmart (SIM Registration Operations Platform):** Developed enterprise-scale platform for nationwide SIM registration operations ensuring regulatory compliance.
- **PenCom:** used by the government to manage pension payment processes to retirees.

Education

- University of Calgary — MEng, Software Engineering   Sep 2024 - June 2025
- Afe Babalola University — BEng, Computer Engineering   Sep 2014 - July 2019