

Joshua Emilola

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Full Stack Software Engineer

Full Stack Software Engineer with 8+ years of professional experience developing enterprise applications for the Health, Financial, and Loyalty Marketing sectors using agile methodologies. Expertise in Java, Spring Boot, React, AWS, Docker, Kubernetes, OpenShift, Jenkins. Adept at designing RESTful APIs, implementing microservice architecture, and deploying containerized solutions using CI/CD pipelines. Proficient in the complete Software Development Life Cycle (SDLC), using tools such as JIRA, Confluence, and Git for project management.

Object Oriented Programming (OOP) • Design Patterns • Microservice Architecture
Containerization • Domain-Driven Design • CI/CD • Cloud Computing
Database Design • Data Security • System Administration
Event-Driven Design • SOLID Programming Principles

Languages: Java, JavaScript, TypeScript, SQL

Web: HTML, CSS, Bootstrap, jQuery

Web Services: Microservices, REST, SOAP, JSON, JWT

Web/App Servers: Apache, nginx

Frameworks: Spring (Boot, Data, Security, Batch, Cloud), Hibernate, JMS, Kafka, JUnit, Mockito, ReactJS, Redux, Swagger, RabbitMQ, NodeJS, Redux, RxJS, NestJS, Jest, Prisma

Databases: MySQL, PostgreSQL, MongoDB, Redis

Design Patterns: Creational, Behavioral, Structural Design Patterns

SDLC: Agile (Scrum)

Tools: Maven, npm, Git, Jira, Confluence, Visual Studio Code, Postman, Draw.io

Platforms: Windows, Linux, MacOS

Application/Software: Jenkins, Docker, Kubernetes, OpenShift, Helm, DataRobot

PROFESSIONAL EXPERIENCE

Octosoft Technologies, Nigeria • 09/2021 – 04/2024

Health Tech Company.

Software Engineer/Team Lead

- Designed and developed responsive Single Page Web Applications (SPA) for health management solutions using ReactJS, Java, and Spring Boot, enabling health providers to manage patient health records efficiently.
- Built an innovative, full-featured Enterprise Resource Planning (ERP) solution, automating all Health Maintenance Organizations (HMOs) processes and eliminating manual verification.
- Developed a multi-tenant, all-in-one marketplace for Health Management Organizations (HMOs) using ReactJS, Spring Boot, and Spring Webflux, allowing HMOs to onboard new enrollees efficiently, increasing their revenue.
- Managed deployments on AWS using Docker for containerization, OpenShift for orchestration, and Helm for packaging, improving delivery efficiency.
- Optimized PostgreSQL database queries and implemented Hazelcast caching, boosting platform performance by 15%.
- Developed a real-time monitoring and alerting system using Prometheus, improving system uptime and reducing downtime.
- Built and maintained CI/CD pipelines using Jenkins, reducing deployment times by 56% through automation.
- Conducted code reviews to ensure adherence to coding standards and best practices, achieving a 15% reduction in bug reports and improving software quality.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Webflux, Security), Hibernate, ReactJS, Redis, Swagger, OpenAPI Specification (OAS), Amazon (S3, EC2), nginx, PostgreSQL, Jenkins, OpenShift, Helm, JUnit, Mockito

Sterling Bank Ltd, Nigeria • 10/2020 – 12/2021

National Commercial Bank.

Mobile, Full Stack Software Engineer

- Implemented Single Sign-On (SSO) support using Java, Spring Boot, and OAuth2/OpenID Connect for BackOffice applications, integrating with Keycloak for authentication and authorization.
- Collaborated with cross-functional teams to integrate backend services with user-facing applications, ensuring system performance, reliability, and scalability.
- Implemented efficient state and flow management using Redux and Higher-Order components, resulting in a 25% reduction in UI-related bugs and overall user satisfaction rating.
- Integrated a selfie-based security verification feature with geolocation using Google Precise Location APIs, optimizing the Auto-KYC process and improving self-service onboarding efficiency by 15%.
- Refined user interfaces to align with Figma designs, ensuring a seamless, visually appealing, resulting in enhanced user experience and a 30% increase in user engagement.
- Implemented Over-The-Air (OTA) updates with CodePush for real-time bug fixes and UI enhancements, allowing near-instant app updates with minimal user intervention for a smooth experience.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Security), OAuth2, OIDC, JUnit, Mockito, NodeJS, React Native, TypeScript, CodePush, Firebase Cloud Messaging, Jest

CeLD Innovations Limited, Nigeria • 02/2017 – 01/2020

National Lottery, Customer Loyalty Marketing.

Full Stack Software Engineer

- Built microservices for a Cash Reward as-a-Service loyalty platform utilizing Spring Boot, Cloud, Kafka, AWS SDK, S3, MongoDB, and Logstash, capturing customers' activities, handling 1,000,000+ daily.
- Developed and maintained a payment solution integrating banking services using Java, Spring, and PostgreSQL, enhancing checkout time.
- Developed and maintained an admin dashboard using ReactJS, Java, Spring, and JMS that integrates Customer Loyalty APIs, enabling seamless disbursement of customer cash rewards.
- Engineered and maintained RESTful APIs for converting customer loyalty points to rewards using NodeJS and MySQL, utilizing event-driven design for scalability and real-time rewards processing.
- Enhanced web functionality and responsiveness using Browser DevTools for debugging and Bootstrap for design, achieving a 15% performance improvement and a 5% increase in user time on-site by streamlining workflows and ensuring cross-browser compatibility.

Technologies Used: Java, Spring (Web, Boot, Data JPA, Security, Integration, Cloud), Hibernate, JMS, Elastic Stack (ELK), TypeScript, ReactJS, MySQL, nginx, Amazon EC2, Amazon S3.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 12/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Advanced Software Development, Web Applications Architecture, Enterprise Applications

Bachelor of Science in Computer Science

Ekiti State University, Ekiti State, Nigeria (05/2014)

CERTIFICATIONS

[Certified in Cybersecurity \(CC\), \(ISC\)²](#) (06/2023)

[Everything DiSC® WorkPlace for Talent Management](#) (11/2023)

[Linux Foundation Certified Systems Administrator \(LFCS\), The Linux Foundation](#)