

SENIOR SOFTWARE ENGINEER

Senior Software Engineer with 8+ years' experience building scalable, secure, cloud-native systems in telecom and fintech. Expert in Java, Spring Boot, microservices, AWS, Kubernetes, Kafka, RabbitMQ. Proven ability to reduce costs, improve reliability, and scale systems to millions of users. Strong leadership background with mentoring experience and mission-critical delivery.

PROFESSIONAL EXPERIENCE

Senior Back End Developer

Aug 2024-Present

IMS VENTURES

- Developed and monitored the Airtime Credit Service (ACS) using Java EE, Spring Boot, RESTful APIs, and AWS CloudWatch, enabling real-time performance tracking and rapid debugging of issues, ensuring seamless connectivity for Pop-up and In-call advances.
- Architected and implemented FairPay RESTful APIs for a digital wallet service using Java EE, Spring Boot, XML, and PostgreSQL, implementing monitoring solutions to track system metrics and resolve technical challenges, enhancing cashless transaction efficiency.
- Built and maintained the FairPay Mobile App and USSD Integration with Java, React Native, Spring Boot, and AWS Lambda, automating support processes and documenting system workflows to improve scalability and reliability.
- Utilized AWS EC2 for infrastructure scalability and AWS CloudWatch for system monitoring, reducing operational costs and proactively addressing performance bottlenecks through detailed metrics analysis.

Senior Software Engineer

May 2021 - Jul 2024

SAFARICOM PLC

- Developed and deployed microservices-based Spring Boot APIs for Facebook Meta to M-Pesa integrations, leveraging Kafka and RabbitMQ for distributed event streaming, orchestrated on Kubernetes for low-latency, high-availability payout services.
- Designed and Implemented the Bill Manager Solution using Java EE, Spring Boot, RESTful APIs, Kafka, and MySQL, implementing SQL queries to track system performance, onboarding 5,000+ billers, and increasing revenue with 70% active user engagement.
- Mentored Junior engineers, driving the adoption of best practices in Agile, Java, Spring Boot, and PostgreSQL, which resulted in 90% of mentees being promoted to senior roles.
- Developed and monitored the Mpesa Payments Enterprise Portal with RESTful APIs, Angular, RabbitMQ, WebLogic, Cassandra, and PostgreSQL, automating support processes to boost transaction reliability.
- Migrated legacy TIBCO-based solutions to Spring Boot microservices for STK Push and Fuliza, using Jenkins for CI/CD automation and Kubernetes for deployment, reducing latency and improving system maintainability.
- Improved system reliability by automating deployments on OpenShift/Kubernetes with Jenkins, reducing release times by 80% and achieving zero production failures.
- Optimized Mobile Money System Configurations during COVID-19 using Oracle and RESTful APIs, lowering transaction costs and enhancing system resilience through proactive monitoring.

Financial Solutions Developer
SAFARICOM PLC

Feb 2019 - Apr 2021

- Built scalable payment infrastructure using Spring Boot microservices and PostgreSQL, with RESTful APIs leveraging HTTP, JSON, XML, reducing payment system failures by 35%.
- Enhanced Visa Integration Project with Java, Spring Boot, Kubernetes, RESTful APIs, and SQL optimization, reducing API latency by 35%.
- Engineered cross-border Internet Money Transfer (IMT) system with Spring Boot + PostgreSQL, cutting settlement time by 50% and expanding global financial network capabilities.
- Enhanced the Overdraft Project (OD) with Java EE, Spring Boot, and TIBCO, using SQL queries to monitor credit assessment processes, cutting loan processing time by 40% and improving accessibility.

Software Engineer
ECLECTICS INTERNATIONAL

Jun 2017 - Feb 2019

- Designed and deployed Java Spring Boot microservices for banking systems with RESTful APIs, PostgreSQL, and React interfaces, reducing transaction failures by 25%.
- Implemented PESALINK, NHIF, and NCC integrations with Oracle, RabbitMQ, SOAP/REST APIs, improving real-time fund transfer reliability.
- Automated loan repayment systems with RabbitMQ + Oracle SQL optimization, enabling real-time deductions and reducing errors by 40%.
- Developed a Cardless ATM Withdrawal Solution with Spring Boot, RESTful APIs, and ESB, increasing ATM transactions by 30% and improving customer convenience.

EDUCATION

M.S., Computer Science | Maharishi International University | In Progress
B.S., Computer Science | Dedan Kimathi University of Technology | 2017

TECHNICAL SKILLS

Languages:Java,C++,Python,SQL,JavaScript

Frameworks:SpringBoot,Hibernate,JPA,TIBCO

Cloud/DevOps:AWS,Kubernetes,OpenShift,Docker,Jenkins,CI/CD

Databases:PostgreSQL,MySQL,Oracle,Cassandra,Redis

Messaging:Kafka,RabbitMQ,JMS

Security:OAuth2,TLS/SSL,SSO,CORS,CSP

Monitoring: CloudWatch, Dynatrace, ElasticSearch, Splunk