

# LAZARUS KORIR

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## SOFTWARE ENGINEER

Highly skilled Software Engineer with over 7 years of experience in middleware technologies, financial solutions, and DevOps operations using Java and Spring Boot. Expertise in designing, testing, and supporting large-scale financial systems in telecommunications and banking. Proficient in API development, system integration, and optimizing applications for scalability and security. Experienced in CI/CD automation, cloud-based deployments, and infrastructure management. Passionate about delivering innovative, user-centric solutions that align with business goals. Strong communicator and team leader, adept at mentoring engineers and driving projects to successful completion.

- Enterprise Solutions • Microservices • API Security • DevOps • Cloud Computing • Test-Driven Development (TDD)
- Continuous Integration and Continuous Delivery • Database Design • Containerization • API Design • Automation

**Languages:** Java

**Web:** HTML, CSS

**Web Services:** REST, SOAP

**Web/App Servers:** Apache, Tomcat, Weblogic, Jboss

**Frameworks:** Spring boot, Play, Vertex Microservices

**Databases:** MySQL, Oracle, Postgress, MS SQL, Redis

**Design Patterns:** Mediator, Prototype

**SDLC:** Agile, Change Management

**Tools:** GitHub, GitLab, SVN, Maven, Gradle, Jenkins, Kubernetes/OpenShift, Docker, Jira, RabbitMQ, JMS, Kafka

**Platforms:** Windows, Mac OS, Linux, AWS

## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### SAFARICOM PLC, Nairobi, Kenya • 02/2019 – 07/2024

A telecommunication services, broadband internet and financial services company.

#### Senior Software Engineer (05/2021 – 07/2024)

- Designed the Bill Manager Solution using Java, Spring Boot, REST APIs, Kafka, and MySQL, enabling onboarding of 5,000+ new billers and attracting over 100,000 customers, with 70% active users, increasing company revenue.
- Led Payments Tribe development and mentorship, using Agile and Jira, with 90% of mentees promoted to senior engineers, fostering technical excellence.
- Developed and deployed the Mpesa Payments Enterprise Portal with REST APIs, RabbitMQ, WebLogic, and PostgreSQL, boosting transaction volume and revenue.
- Migrated legacy TIBCO-based solutions to Spring Boot microservices for STK Push and Fuliza for Organizations, enhancing scalability and reducing licensing costs.
- Optimized Mobile Money System Configurations during COVID-19, leveraging Oracle and REST APIs to lower transaction costs for millions of users.
- Automated microservices deployments on OpenShift and Kubernetes using Jenkins, reducing deployment time by 80%, eliminating production failures, ensuring reliability of mission-critical financial applications.

#### Financial Solutions Developer (02/2019 – 04/2021)

- Optimized the Overdraft Project (OD) with Java, Spring Boot, and TIBCO, improving real-time credit assessment, cutting loan processing time by 40%, and enhancing financial accessibility.
- Developed and deployed the VAS Surepay System using REST APIs, RabbitMQ, and MySQL, enabling seamless payment validation for third-party services, significantly improving transaction accuracy and reducing payment failures.
- Developed the Internet Money Transfer (IMT) system with Java, TIBCO, and Kubernetes, enabling secure cross-border transactions, cutting settlement time by 50%, and expanding Safaricom's global financial network.
- Built and integrated the Forex Rate API System using Spring Boot, PostgreSQL, and OpenShift, providing real-time exchange rate updates, enabling faster forex conversions, and improving transaction transparency.

- Maintained the Alipay Connect System, utilizing Oracle, and Jenkins, enabling frictionless digital payments between Safaricom users and Alipay merchants, increasing international transaction volume.
- Led the Visa Integration Project with microservices and Kubernetes, reducing API latency by 35% and improving transaction efficiency for customers and merchants.

**Technologies Used:** Java, Spring Boot, TIBCO, REST APIs, MySQL, Kafka, RabbitMQ, Postgres, Oracle, Jenkins, Agile, Kubernetes, OpenShift, Jira.

#### **ECLECTICS INTERNATIONAL, Nairobi, Kenya • 06/2017 – 02/2019**

A fintech company providing banking and financial software solutions.

##### **Software Engineer**

- Designed and optimized Java middleware for banking, integrating bill payment utilities into the core system via ESB, reducing transaction failures by 25% and enhancing system reliability.
- Led system integrations for PESALINK, NHIF, and NCC, utilizing Oracle, REST APIs, JMS, and WebLogic, enhancing real-time fund transfers and expanding banking functionalities to better serve customers.
- Architected and deployed a bulk payments solution using Spring Boot, JMS and ESB, streamlining high-volume corporate transactions, increasing processing speed, and driving adoption by major enterprises.
- Built and launched multiple mobile banking applications for banking, and Customer & Agent Mobile App, leveraging Java, Android, Ionic, and REST APIs, improving digital banking accessibility and user engagement.
- Engineered and automated a Loan Repayment System using Java, WebLogic, RabbitMQ, and Oracle, enabling real-time loan deductions, reducing manual processing errors by 40%, and ensuring compliance with financial regulations.
- Developed a Cardless ATM Withdrawal Solution with Spring Boot, REST APIs, and ESB, enabling secure mobile authentication for cash withdrawals, increasing ATM transactions by 30%, and improving customer convenience.

**Technologies Used:** Java, Android, Ionic, Oracle, ESB, RabbitMQ, JMS, WebLogic, REST APIs.

### **ACADEMIC PROJECTS**

#### **Maharishi International University (2024)**

- **MedTrackRx:** MedTrackRx is a web-based prescription management system streamlining prescription handling for patients, physicians, and pharmacists. It features role-based authentication for secure access and compliance. Built with Spring Boot, Thymeleaf, HTML, and CSS, it leverages RESTful APIs for seamless data exchange and workflow integration.
- **NexaBank:** NexaBank is a modern banking solution for secure account management, transactions, and user authentication. With role-based access for customers, tellers, and admins, it ensures streamlined and secure operations. Built with Spring Boot, Thymeleaf, HTML, and CSS, the system provides a responsive UI, secure authentication, and a scalable architecture for future service integrations.
- **CloudConnect CRM:** CloudConnect CRM is a cloud-native contact management platform that enables efficient storage and retrieval of contact information. Featuring a ReactJS frontend for a responsive UI and a Spring Boot backend for secure data management, the system is deployed on AWS with CI/CD pipelines for scalability and high availability. Serverless and containerized deployment options ensure flexibility and performance.

### **PERSONAL PROJECTS**

**LoanSphere 2023:** LoanSphere is a microservices-driven lending platform that streamlines loan processing, repayments, and notifications. It provides robust APIs for loan applications, user loan limits, repayments tracking, and real-time notifications. The system integrates seamlessly with financial institutions and fintech applications using a well-structured API Gateway and database schema. Built with Java Spring Boot, MySQL, and SonarQube.

### **EDUCATION**

#### **Master of Science in Computer Science**

*(In progress via distance education; expected completion 04/2027)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** Cloud Computing, Software Engineering, Algorithms, Database Management System

#### **Bachelor of Science in Software Development**

Dedan Kimathi University of Technology, Nyeri, Kenya (04/2017)