

## Marklan Mumba

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Nairobi, Kenya

### Education & Certificates

- Bachelor of Computer Science, Riara University *Graduated 2025*
- Web Development Certificate, Moringa School *2020*

### Work history

#### *Fullstack Engineer*

*Cloud IT (August 2025 – Present)*

- Designed, developed, and deployed backend services and RESTful APIs using Java (Spring Boot) to support scalable client e-commerce and MIS platforms.
- Implemented CI/CD pipelines using GitLab CI/CD, automating deployments to GCP and Azure, ensuring secure, high-availability releases.
- Containerized distributed microservices using Docker, standardizing deployments and simplifying environment setup for developers.
- Collaborated with frontend and product teams to integrate Angular applications via secure, versioned APIs.
- Authored and maintained technical documentation with Docusaurus, improving onboarding efficiency across cross-functional teams.

#### *Backend Engineer Intern*

*Kyosk (January 2025 – April 2025)*

- Developed microservices for payment processing and transaction workflows using Spring Boot and REST APIs, ensuring reliable system communication and data consistency.
- Built and executed unit and integration tests with JUnit and Mockito, maintaining over 80% coverage and minimizing regression issues.
- Wrote detailed Technical Requirements Documents (TRDs) for payment integrations, promoting consistent and compliant implementation across teams.
- Collaborated with senior engineers in code reviews and system design discussions, strengthening the scalability and maintainability of backend systems.
- Collaborated with senior engineers using Agile delivery methods, Git version control, and code review practices to deliver secure, maintainable backend features.

### Projects

### *Foliocuts*

- Designed and implemented a backend-driven barbershop management system to digitise payments, commissions, and operational reporting.
- Built RESTful APIs to handle transactions, staff commissions, customer loyalty, and role-based dashboards using secure authentication and authorisation.
- Integrated M-Pesa STK Push payments with automated transaction recording, receipt generation, and reconciliation logic.
- Modelled relational data for customers, staff, services, and payments to ensure data consistency and accurate financial calculations.
- Deployed and maintained the system in a production environment with environment-based configuration and secure secrets management.

### *BolloApp*

- Engineered backend services for a smart waste management platform using Spring Boot, exposing real-time APIs for scheduling, billing, and collections.
- Integrated MTN MoMo payments to automate customer billing and transaction verification workflows.
- Containerised backend services and deployed to a VPS with CI/CD pipelines to support reliable and repeatable releases.
- Implemented authentication, input validation, and notification logic to ensure secure and consistent system behaviour.

### *RentItUp*

- Architected a rental marketplace backend using Spring Boot, serving listings with secure JWT authentication and OAuth-based login.
- Built REST APIs for listings, users, and bookings with PostgreSQL, achieving faster queries through indexing and pagination.
- Integrated payment and email notification systems, improving platform reliability and user trust.

## **Skills**

Languages: Java, JavaScript, TypeScript

Frameworks: Spring Boot, React

Databases: PostgreSQL, MongoDB

Tools: Docker, Git, GitLab CI/CD, Azure

Concepts: REST APIs, Microservices, CI/CD, System Design, Security, Scalability, Testing (JUnit, Mockito), Cloud Deployment