

Brian Gathua Kiragu

Engineering Lead & Senior Software Engineer

Nairobi, Kenya | EAT (UTC+3) | Remote roles and long-term contracts

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Professional summary

Software engineer and hands-on engineering lead building mobile applications and backend systems for energy distribution, delivery, and insurance. Lead five engineers at Jaguar Petroleum, contributing to system design, development, hiring, and code reviews. Designed cylinder tracking workflows supporting 10,000+ cylinders across four depots and reworked data handling for a 1,000-sensor BLE pilot. Run Funmo, an independent web development agency.

Professional experience

Jaguar Petroleum Limited | Engineering Lead

April 2024 - Present

- Lead five engineers across mobile, backend, IoT, and infrastructure; contribute directly to architecture, implementation, code reviews, hiring, and Git-based delivery.
- Architected LPG cylinder lifecycle workflows covering onboarding, warehouse movements, dispatch, refilling, delivery personnel, and customer allocation; platform supports 10,000+ cylinders across four depots.
- Delivered Flutter and backend capabilities for JGas and fleet/mobility workflows, connecting mobile applications with operational services and enterprise systems.
- Investigated elevated MySQL load in a 1,000-sensor BLE pilot; introduced Redis caching and reduced the frequency of persisted updates to manage database writes. Performance improvement has not yet been measured.
- Contributed to the migration from NetSuite to ERPNext to reduce vendor dependency and improve access to implementation resources.

ICEA LION Group | Full Stack Developer

April 2022 - April 2025

- Developed and maintained customer and agent-facing insurance applications with a reported combined user base of more than 1,000.
- Implemented Flutter mobile features and REST API integrations for insurance workflows and enterprise backend services; collaborated with product and engineering on debugging and delivery.

Upande Limited | Technology leadership and Android development

2017 - April 2022

- Joined as an intern and progressed into Android development and technology leadership responsibilities.
- Contributed to environmental monitoring software and related digital solutions.

Selected project work

JGas and LPG cylinder tracking

Designed cylinder lifecycle workflows and delivered Flutter and backend capabilities for LPG operations. The tracking platform supports 10,000+ cylinders across four depots. JGas has a reported 500+ users; the measurement period is to be confirmed.

IoT monitoring

Investigated database workload during a pilot involving 1,000 BLE sensors. Introduced Redis caching and reduced persisted sensor update frequency to manage high-frequency MySQL writes. This is pilot scale; no measured performance gain is claimed.

ICEA LION Agents and customer applications

Developed and maintained Flutter features and REST integrations supporting customer and agent insurance workflows. The reported 1,000+ users cover both applications combined.

JMobility

Delivered Flutter and backend capabilities for fleet and last-mile delivery workflows, integrating operational services. Work focused on connecting mobile delivery activity with backend operations.

Independent web development

Funmo | funmo.africa

Run a web development agency alongside engineering work, building websites for clients. Security is a priority in the approach to software: limiting access, protecting sensitive data, and reviewing what an application exposes.

Technical skills

Mobile: Flutter, Dart, Android (Java/Kotlin), Redux, BLoC/Cubit, Riverpod, Provider.

Backend and data: Java, Spring Boot, Node.js, REST APIs, PostgreSQL, MySQL, Redis, WebSockets.

Infrastructure and delivery: Linux, Docker, Git, CI/CD, Nginx, cloud deployments.

Systems: Architecture, ERP integrations, IoT data pipelines, payment APIs.

Leadership and collaboration

Lead a five-person engineering team; have mentored and trained 20+ developers. Experience in technical interviews, hiring, code reviews, architecture decisions, and discussions with nontechnical stakeholders.

Education and training

Diploma in Information Technology

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Software Engineering Certificate

Moringa School