Felix Mwendia Gathage

Full Stack Engineer | Technical Team Lead (Flutter, React, Vue.js, Django)

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Professional Summary

Full Stack Engineer and Technical Team Lead with 3+ years of experience building production-ready healthcare and enterprise applications across mobile, web and backend. Flutter (Dart) specialist for cross-platform mobile and web apps, with React.js, Next.js and Vue.js for modern web interfaces, Django and Frappe for backends and RESTful APIs, and Kotlin for Android-native features and enterprise integrations. Skilled in Clean Architecture, REST API integration, payment and third-party integrations, AWS deployment and Play Store deployment. Currently leads a development team delivering national digital health platforms in Kenya, including the SHA-integrated Practice360 (P360) provider app and the Afyangu patient platform.

Technical Skills

- **Languages:** Dart, Kotlin, JavaScript, Python, Java
- **Mobile Development:** Flutter, Android SDK, Activities & Fragments, XML Layouts, ViewBinding, Flutter Web
- **Frontend & Web:** Vue.js, React.js, Next.js, Tailwind CSS, Responsive Design, UI/UX Implementation
- **Backend & Frameworks:** Frappe, Django, Node.js, RESTful APIs, JSON
- **Databases & Caching:** PostgreSQL, MySQL, Redis
- **Architecture & State Management:** Clean Architecture, MVVM, GetX, Microservices
- **Android Libraries:** Kotlin Coroutines, Retrofit, Room, SQLite, SharedPreferences, Hilt, Koin
- **Integrations:** Mobile Money (Airtel STK Push), Firebase Realtime Database, APISIX API Gateway, Azure Key Vault
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, IAM), Nginx, Gunicorn, Fastlane, Google Play Store Deployment (Internal & Production Tracks)
- **Tools:** Git, GitHub, ZenHub, Figma, Android Studio, Visual Studio Code, Logcat
- **Practices:** Agile/Scrum, Sprint Planning, Story Point Estimation, Unit Testing, Code Review, Technical Documentation

Professional Experience

Technical Team Lead

Konvergenz Solutions | Nairobi, Kenya | March 2026 – Present

- Lead the development team delivering the Afyangu patient platform, the Practice360 (P360) provider app and the Tiberbu HMIS web portal.
- Plan and break down work into epics, tasks and story-point estimates in ZenHub, covering Localization, Consent Management, Audit Logs, Email Verification, Shared Health Records and Settings.
- Coordinate the multi-system Overseas Treatment referral workflow across Afyangu and P360, owning P360 integration and the patient-side referral journey.
- Led a localization plan centralizing app strings into JSON locale files with English and Kiswahili support.

- Integrated Airtel Kenya STK Push mobile payments into a Frappe backend and resolved callback and authorization issues.
- Documented and organized 63 Afyangu API endpoints to speed up integration and onboarding.
- Translate Figma designs into scoped development tasks and review team delivery against them.

Frontend and Mobile App Developer

Konvergenz Solutions | Nairobi, Kenya | March 2024 – March 2026

- Built cross-platform healthcare apps in Flutter with near-native performance from a single codebase, using Clean Architecture and GetX.
- Developed the Afyangu mobile and web apps for medical records, appointments, insurance tracking and health monitoring.
- Developed the Practice360 (P360) provider app, replacing manual and OTP-based processes for pre-authorizations with secure access to SHA services.
- Built Tiberbu HMIS web portal features in Vue.js and Frappe, including analytics dashboards and assessment portals.
- Implemented insurance and claims features, including eligibility checks and claims submission workflows.
- Built patient data workflows with smart forms, real-time validation and approval processes.
- Implemented secure healthcare data features, including end-to-end encryption, role-based access control, audit trails and patient consent management, aligned with HIPAA standards.
- Embedded a customer management portal into the Afyangu Flutter web app using an iframe and postMessage architecture.
- Designed accessible, responsive interfaces with clear navigation across devices.

Technical Consultant

Tendersure SEZ Limited | Nairobi, Kenya | September 2023 – March 2024

- Developed and maintained procurement systems (Tendersure Web, Tendersure Mobile and Eprocure) covering tendering, bid submission, evaluation and procure-to-pay.
- Built features with Django (Python) and Vue.js in collaboration with cross-functional teams.
- Developed and maintained RESTful APIs integrating procurement, notification and financial systems.
- Configured Nginx and Gunicorn and managed cloud resources on AWS.
- Wrote technical documentation, including architecture diagrams, API specifications and deployment procedures.
- Gathered client feedback in customer meetings and proposed product improvements.
- Provided on-site technical support, including network troubleshooting and printer and scanner setup.

Software Developer Intern

QED Solutions | Nairobi, Kenya | May 2023 – August 2023

- Developed and maintained web applications using Django and Vue.js.
- Tested system functionality as part of the QA team and handled hardware support.

AWS Cloud Practitioner Trainee

Azubi Africa | September 2022 – April 2023

- Completed hands-on training in AWS services, including EC2, S3, RDS, Lambda and IAM.
- Learned to design scalable, highly available and fault-tolerant cloud architectures (IaaS, PaaS, SaaS).

Other Projects

- **Boror E-Commerce Marketplace** (boror.shop) – Multi-vendor e-commerce platform with seller onboarding, cart, location-based delivery, multi-language support and full search. Next.js, Flutter, PostgreSQL, Redis.
- **Rocket Tradeline** (rockettradeline.com) – Online marketplace for authorized user tradelines with buy and sell journeys and account sign-up and log-in. Next.js, Nginx.
- **Bobo Blooms Florist Website** (bobobloomsorg) – Website for a Nairobi florist with 12 browsable collections, 220+ photos and orders through WhatsApp, an order form or phone. Next.js, Vercel.
- **Map 360 Workflow Platform** – Content workflow management system with task assignment, progress tracking, user dashboards and automated notifications. Vue.js, MySQL, Redis, Tailwind CSS.
- **CTT365 Mobile App** – Enterprise mobile application with user authentication, real-time notifications, data visualization and secure API communication. Flutter, Dart, Node.js, Redis.

Education

Bachelor of Science in Computer Science

Egerton University | 2023 | Second Class Honours, Upper Division

ALX Software Engineering Program

Full-stack development intensive

Certifications

- AWS Certified Cloud Practitioner – AWS re/Start Program