

Amos Kiprotich Langat

Senior Software Engineer

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Professional Summary

Senior Software Developer and Architect with 3+ years building high-performance, scalable systems across TypeScript/Node.js, PHP/Laravel, and Python. Proven track record designing microservices architectures, integrating fintech APIs (M-Pesa Daraja, Paystack), and delivering enterprise platforms across energy distribution, healthcare, and ISP infrastructure sectors. Manages a private cloud infrastructure of 40+ Docker containers with a strong DevOps foundation in CI/CD, Linux administration, and automated testing. Comfortable working independently or within larger engineering teams, across the full stack, from architecture and backend design to deployment and infrastructure operations — well suited to distributed, remote-first teams.

Professional Experience

Personal MikroTik Fleet Management Tool, MikroHub - Built MikroHub to manage and monitor my own private-cloud MikroTik router fleet, with a built-in SSTP/WireGuard VPN concentrator so routers connect without a public IP. - FastAPI + Celery backend, Vue 3 frontend, full CI/CD pipeline with staging/production environments and a pytest test suite.	01/2026 – Present
AMAC Health Platform Backend integration engineering, as part of a larger team, on a healthcare platform connecting to Kenya's national Health Information Exchange (Spring Boot, Java, PostgreSQL).	01/2026 – Present
M-AJIRA Job Placement Platform Laravel-based candidate recruitment platform with multi-step registration, M-Pesa integrated application fees, and no-login application status tracking.	01/2026 – Present
AMAC Oil & Gas Platform - Enterprise petroleum distribution platform managing OMCs, transporters, dealers, and retailers across counties — orders, payments, deliveries, and POS endpoints. - Backend on Laravel; frontend on Next.js 13 with TypeScript, Tailwind CSS, and shadcn/ui.	12/2025 – Present
KiPay Payment Gateway v2 - Leading a ground-up rewrite of KiPay: Go (Fiber) backend with PostgreSQL, Redis, and Asynq background job processing, integrating directly with Safaricom's Daraja API to cut transaction fees versus third-party aggregators. - Built a Next.js operator dashboard with real-time updates and a companion Flutter mobile app; currently deployed to staging for mobile testing, replacing the original Node.js/TypeScript version.	01/2025 – Present

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- Co-building (with a partner) a multi-tenant SaaS billing platform for WiFi/ISP resellers on PHPNuxBill, with FreeRADIUS, MikroTik RouterOS API, and M-Pesa Daraja (STK Push + C2B) integration.
- Building branded, per-operator captive portals and automated billing; currently in active local/staging development, not yet production.

01/2023 – Present

Infrastructure & DevOps Engineer, Private Cloud

- Manages and orchestrates a private cloud environment of 40+ Docker containers using Dockge.
- Standardized development environments and deployment processes across multiple product lines; maintains high availability and security through automated auditing and custom firewall configurations.

01/2023 – Present

Network Administrator & IT Support,
Nairobi City Water and Sewerage Company Ltd (NCWSC)

Designed and implemented network infrastructure upgrades, achieving a 50% increase in network speed and a 20% reduction in downtime.

09/2023 – 11/2023
Nairobi, Kenya

Education

Bachelor of Business & Information Technology, *Technical University of Mombasa*

01/2020 – 12/2024

Foundational C# with Microsoft, *Microsoft*

Online

IBM Data Analytics with Excel & R, *IBM*

Online

Technical Skills

Languages TypeScript, JavaScript (ES6+), Node.js, Go, Python, PHP (Laravel), Java (Spring Boot), Dart (Flutter)	Backend Express, FastAPI, REST APIs, Event-driven architecture, Microservices design
Frontend Next.js, Vue 3, Tailwind CSS, shadcn/ui	Databases PostgreSQL, MySQL, Redis, NoSQL
DevOps & Infra Docker (40+ containers, Dockge), Nginx, CI/CD (GitHub Actions), Private Cloud management, Linux (Ubuntu), WireGuard/SSTP VPN	Testing & Automation Playwright, Cypress, n8n, pytest, automated testing suites
Fintech APIs Safaricom Daraja API (M-Pesa), Paystack	Practices Agile/Scrum, technical mentoring, architectural decision-making