

Amos Kiprotich Langat

Full Stack Engineer | IoT & Industrial Automation Specialist

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👤 PROFILE

Innovative Full Stack Developer with extensive experience in building scalable enterprise solutions, industrial automation systems, and fintech gateways. Expert in bridging the gap between cloud-based ERP systems (Odoo, Laravel) and edge computing (Raspberry Pi, MikroTik). Proven track record of developing multi-tenant SaaS platforms that integrate complex networking, automated payments (M-Pesa), and government compliance (KRA eTIMS).

🧩 TECHNICAL SKILLS

- **Backend & APIs:** PHP (Laravel, Slim), Node.js (TypeScript, Express), Python (FastAPI, Celery).
- **IoT & Industrial Automation:** Raspberry Pi (Station Agents), Odoo ERP Integration, XML-RPC, POS Systems, DOMS PSS 5000 interfacing.
- **Infrastructure & Networking:** MikroTik RouterOS (SSTP/WireGuard), Radius (FreeRadius), VPN Concentrators, Docker Orchestration (Dockge), Nginx.
- **Fintech:** Safaricom Daraja API (M-Pesa STK Push/C2B/B2C), KRA eTIMS VSCU Integration, Paystack.
- **DevOps & Private Cloud:** GLPI (Asset Management), Zammad (Helpdesk), n8n (Automation), Cloudflare Tunnels, rkhunter security auditing.
- **Data Science:** R Programming, Cognos Analytics, PostgreSQL, Redis.

🧩 KEY PROJECTS & EXPERIENCE

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|----------------|--|
| 2025 – Present | Lead Architect & Full Stack Engineer
JUMUIYA Energy — Supply Chain & CRM Ecosystem <ul style="list-style-type: none">• Architected a massive enterprise platform for energy distribution managing OMCs, transporters, and retailers.• Developed specialized USSD interfaces and a Call Center module for low-connectivity logistics support. |
| 2025 – Present | Kipay Gateway — SaaS Payment Aggregator <ul style="list-style-type: none">• Built a high-performance payment gateway aggregating Daraja services with Redis-backed request throttling and JWT-based authentication. |
| 2023 – Present | Lead Architect & Full Stack Engineer
BENFEX — Multi-Tenant WiFi Hotspot Billing Platform <ul style="list-style-type: none">• Developed a comprehensive SaaS platform for WiFi resellers to manage MikroTik hotspots and automate internet package sales via M-Pesa.• Integrated MikroHub, a custom VPN concentrator (SSTP/WireGuard), enabling NAT traversal for field routers without public IPs. |
| 2023 – Present | Infrastructure & DevOps Engineer (Private Cloud) <ul style="list-style-type: none">• Manages a private cloud environment with 40+ Docker containers, utilizing Dockge for orchestration.• Maintains GLPI and Zammad for enterprise-grade service desk delivery and n8n for business workflow automation. |
| 2025 – 2025 | Petrol Station Management & Automation System <ul style="list-style-type: none">• Engineered a hybrid architecture using Odoo 17 (Cloud) and Raspberry Pi (Edge) for real-time pump control and local SQLite sales queueing. |

- Implemented KRA eTIMS (VSCU) integration for automated tax compliance and QR code generation.

09/2023 – 11/2023

Nairobi City Water and Sewerage Company LTD

Network Administrator & IT Support

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

EDUCATION

2024 – present

FOUNDATIONAL C# WITH MICROSOFT

Microsoft, Online [🔗](#)

Currently pursuing comprehensive C# programming certification through Microsoft's Foundational C# course. The program encompasses core language concepts, object-oriented programming principles, and practical software development fundamentals.

2023 – 2024

IBM DATA ANALYTICS WITH EXCEL & R

IBM, Online

This online course provided me with a comprehensive overview of Data Analytics. Through interactive lectures, hands-on assignments, and peer-reviewed projects, I gained high valued skills like Cognos Analytics and R programming language.

2020 – 2024

Mombasa, Kenya

BACHELOR OF BUSINESS & INFORMATION TECHNOLOGY

Technical University of Mombasa

This comprehensive four-year program provided me with a strong foundation in both business principles and information technology concepts

CERTIFICATES

- R Programming for Data Science Essentials [🔗](#)
- Data Visualization and Dashboards with Excel and Cognos [🔗](#)
- Excel Basics for Data Analysis [🔗](#)

LANGUAGES

English



Swahili



INTERESTS

- Cloud Computing
- Machine Learning
- Networking and Network Security Activities
- Artificial Intelligence
- Open Source

AWARDS

06/11/2023

R Programming for Data Science Essentials [🔗](#)

Coursera

15/10/2023

Data Visualization & Dashboard Essentials [🔗](#)

Coursera