

BYRON MAHINYA ISAAC

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SKILLS

Languages: Python, Golang, Rust
Databases: PostgreSQL, MongoDB, MySQL, AWS RDS, AWS DocumentDB, ElasticSearch
Cloud & Infra: AWS (S3, SageMaker, RDS, DocumentDB), Azure, GCP, Terraform, Docker, Kubernetes
Frameworks: FastAPI, Flask, Gin, Fiber, Echo, Actix Web
Messaging: Kafka, RabbitMQ, gRPC
CI/CD & DevOps: CircleCI, GitHub Actions, Bash Scripting, PyTest, Terraform
ORMs & Data: SQLAlchemy, GORM, SQLC, SQLX
Other: Redis, New Relic, Distributed Tracing, Event-Sourced Architecture

EXPERIENCE

Cloud Engineer, Machine Learning — Amazon, Nairobi, Kenya May 2024 – Present

Triaged and resolved 307+ enterprise customer incidents across SageMaker and Big Data services on AWS, maintaining a 4.8/5 customer satisfaction rating.

Led implementation of a Feature Prioritization Model within the support tools team, establishing evaluation criteria based on security and customer impact — accelerating delivery of high-priority improvements.

Integrated an LLM-powered chat summary tool into the global support dashboard, eliminating manual summary drafting for thousands of support engineers worldwide.

Stack: Python, FastAPI, AWS, Claude Sonnet 3.7, Internal Tools

Software Engineer — Novek, Nairobi, Kenya January 2023 – May 2024

Developed and maintained the backend for an event-sourced payment and sales system processing 60+ tonnes of cooking oil monthly across 600 machines, 170 shops, and 3 refilling trucks — directly supporting the company's mission to remove 28 tonnes of plastic waste from the supply chain.

Migrated 10+ microservices from legacy PHP to Golang, achieving a 200% increase in event throughput (180 → 430 events/min), 75% less memory usage, and 62.5% reduction in server costs (\$320 → \$120/day).

Implemented distributed tracing across all microservices using New Relic, reducing system failure resolution time by 60%.

Automated infrastructure deployment with Terraform, improving deployment efficiency by 40% and enabling rapid environment provisioning.

Designed and implemented multi-tenant PostgreSQL architecture, improving application performance by 50% and simplifying data management.

Owned end-to-end delivery: database design, API development, authentication/authorization, security, and production hosting. Stack: Golang, PostgreSQL, Kafka, ElasticSearch, Redis, gRPC, Terraform

Software Engineer, ML Team — Lima Labs**August 2021 – January 2023**

Built a computer vision grading module using PyTorch for counting and grading agricultural stems, improving grading accuracy by 75% over manual processes.

Implemented gRPC client streaming for image delivery, reducing mobile data usage by 45% — critical for users in low-bandwidth environments.

Designed and validated AI solutions aligned with business objectives, contributing to a 20% increase in revenue from AI-driven recommendations.

Built API endpoints for interfacing with the grading module in production.

Stack: Python, PyTorch, FastAPI, MongoDB, AWS S3

Software Engineer, ML Team — Infotrace Analytics**February 2021 – July 2021**

Developed a credit scoring model using SparkML and Kafka for a Digital Sacco client, reducing loan default rates by 29% within 4 months — directly improving financial outcomes for underserved communities.

Built Spark cron jobs transferring 10GB of data daily from cloud to on-premise servers, enabling timely access for BI and data science teams.

Stack: Python, PySpark, SparkML, Kafka, Flask

PROJECTS**Developer — TenthLiner (tenth-line.pages.dev)****October 2025 – Present**

Built an automated document formatting tool for Kenyan legal professionals, enabling court-compliant line numbering for pleadings, affidavits, and submissions. Integrated M-Pesa payments and supports High Court

and Magistrate Court formatting standards per Kenya Civil Procedure Rules.

Stack: Golang, PostgreSQL, Redis, React

Lead Developer — LexAI Kenya (lexaikenya.com)**October 2024 – Present**

Built an AI-powered legal research assistant helping Kenyan litigators identify relevant case law, reducing research time significantly. Currently serving 349 paying monthly subscribers.

Stack: Golang, Redis, PostgreSQL, Claude Sonnet 3.5

Backend Developer — Qwetu Petroleum Go Paperless System**March 2023 – June 2023**

Architected and built a system to digitize business operations, eliminating manual paperwork. Still in active use by the company.

Stack: Golang, PostgreSQL, Redis

EDUCATION

Jomo Kenyatta University of Agriculture and Technology September 2013 – December 2019

B.Sc. Electrical and Electronic Engineering — Second Class Honours

LEADERSHIP & COMMUNITY

Beta Microsoft Learn Student Ambassador | IoT League Team Lead January 2017 – November 2019

Organized virtual and in-person technical events impacting students globally. Led the IoT team using Azure IoT, Arduino, and Raspberry Pi.

Club Chairman — IoT, Cybersecurity, Cloud — JKUAT January 2016 – November 2018

Led technical training sessions across multiple technology domains.

REFERENCES

Available upon request