

Iain Mosima Nyakundi

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[LinkedIn](#)

[Github](#)

[Portfolio](#)

Full-stack engineer with 3+ years of experience building scalable, reliable, and secure software solutions. Strong expertise in cloud infrastructure, CI/CD, containerization, and backend development. Excellent problem-solving skills, a strong ownership mindset, and a passion for learning and adapting to new technologies.

WORK EXPERIENCE

APA Insurance

Backend Engineer / Data Engineer

Kenya, Nairobi (full-time)

June 2024 - August 2024

- Developing scalable backend services using Kotlin and Java with Spring Boot.
- Implementing CI/CD pipelines using CircleCI and GitHub Actions.
- Deploying and managing cloud-based infrastructure using AWS services (EC2, S3, ECS, Route 53).
- Ensuring system reliability through observability tools and security best practices.
- Collaborating with cross-functional teams to optimize infrastructure for performance and cost efficiency.

Supply Chain Solutions Hub

Full Stack Engineer

Nairobi, Kenya (part-time)

June 2023 - May 2024

- Built and optimized supply chain logistics solutions, improving system performance by 67%.
- Managed deployments using Terraform for Infrastructure as Code (IaC).
- Integrated monitoring tools like Prometheus and Grafana for observability.
- Led incident management and performed root cause analysis for system reliability improvements.
- Automated infrastructure scaling using Kubernetes.

TECHNOLOGIES

Languages

Python,

Javascript/Typescript,

Java/Kotlin, Golang

Frameworks

FastApi, Django, Flask,

Node.js, Express.js, Nest.js,

Next.js, Spring Boot, Gin

AWARDS

ALX Founder Academy

Recognized for outstanding performance and innovation, highlighting exceptional contributions and dedication to excellence in software development. - [Certifcate](#)

LANGUAGES

Kiswahili native

English C2, fluent

Qijani

FullStack Engineer / DevOps

Kiambu, Juja (Full-time)

July 2020 - February 2023

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- Migrated a monolithic application to a microservices architecture for improved scalability and maintainability.
- Implemented infrastructure as code using Terraform and Ansible for automated deployments.
- Developed and optimized APIs using GraphQL and REST.
- Ensured security compliance through authentication, authorization, and encryption techniques.
- Monitored system health and performance with OpenTelemetry, Prometheus, and AWS CloudWatch.
- Built an e-commerce platform with an AI-driven personalized recommendation engine.

Turing

Data Scientist/Analyst

USA, Remote (Contract)

April 2024 - May 2024

- Trained and fine-tuned a Large Language Model (LLM) for advanced data analysis using reinforcement learning.
- Improved model robustness and decision-making through data augmentation techniques.

Upwork

Data Scientist / Fullstack Engineer

Remote (Freelance)

Feb 2022 - Present

- Developed scalable backend systems using Java Spring Boot and Django for various clients.
- Created dynamic, user-friendly front-end applications with Next.js, React.js, and TypeScript.
- Built and deployed machine learning models with TensorFlow, addressing real-world business challenges.
- Conducted data analysis and visualization to support client decision-making processes.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology, B.Sc. Mathematics and Computer Science

Kenya, Kiambu

2020-2025 (May)

Certificates

- KCSE Certificate - [Certificate](#)
- Moringa Data Science Core Program - [Certificate](#)
- ALX-T Cloud Developer - [Certificate](#)
- ALX Software Engineer - [Certificate](#)
- Walmart USA Advanced Software Engineering Virtual Program - [Certificate](#)
- Hewlett-Packard Enterprise Software Engineering Job Simulation - [Certificate](#)
- Modcom Mobile Software Development Program - [Certificate](#)

SIDE PROJECTS

Market segmentation

[Github](#)

- **Technologies used:** Python, K-clustering
- **Outcome:** To enhance the description of your market segmentation project, consider the following: "Conducted a market segmentation project, the details of which can be found in the GitHub repository:

Kasi

[Website](#)

[Github](#)

- **Technologies used:** Next.js, Node.js, DynamoDB, AWS S3.
- **Outcome:** Successfully developed a B2B logistics solutions provider that addressed challenges in the efficient pickup and delivery of products. Implemented robust backend and frontend solutions, optimized performance, and ensured scalability.

Simple Banking App

[Github](#)

- **Technologies used:** Golang, PostgreSQL, Docker, Redis, REST APIs, Kubernetes.
- **Outcome:** Built a simple banking application that enables users to create accounts, deposit, withdraw, and transfer funds securely. Implement JWT authentication and

role-based access control for security. Deployed using Kubernetes for scalability