

Godfrey Otieno

DevOps Engineer | Backend Developer | AI/ML Engineer | Cloud & Infrastructure Specialist

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer, Backend Developer, and AI Specialist with proven experience in designing cloud-native infrastructure, CI/CD automation, AI/ML pipelines, and scalable backend systems. Highly skilled in container orchestration, infrastructure-as-code (IaC), observability solutions, and proactive root cause analysis using AIOps. Demonstrates a strong ability to solve production issues, improve system performance, and deliver reliable cloud-based applications in Agile environments.

WORK EXPERIENCE

DevOps & AI Engineer – Alluvium

06/2024 – Present

- Designed and implemented scalable infrastructure on AWS using Terraform and Ansible.
- Developed CI/CD pipelines with GitLab CI and Jenkins for continuous integration and delivery.
- Integrated automated security and quality scans into deployment workflows.
- Deployed containerized applications using Docker and Kubernetes.
- Configured observability tools including Prometheus, ELK Stack, Grafana, and OpenTelemetry.
- Built and monitored ML pipelines for anomaly detection and automated RCA (Root Cause Analysis).
- Conducted automation scripting using Python, Bash, and Groovy for health visualization and orchestration.

AI Engineer – Alluvium

01/2025 – Present

- Developed ML models for classification, anomaly detection, and predictive analytics.
- Implemented ML-driven monitoring solutions for production environments.

- Deployed deep learning models using TensorFlow and PyTorch into cloud-based applications.

Backend Engineer (Freelance) – Nairobi, Kenya

06/2021 – Present

Project: MyGreenApp

- Designed backend architecture using Python, Flask, PostgreSQL, and Redis.
 - Built RESTful APIs and secured them with JWT, OAuth2, and HTTPS protocols.
 - Integrated external APIs (SMS, payments) and implemented Redis-based caching.
 - Maintained codebase, deployed updates and fixes, and enhanced system resilience.
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TECHNICAL SKILLS

DevOps & Cloud:

- AWS Cloud Services (EC2, S3, RDS, Lambda)
- Docker, Kubernetes, OpenShift
- Terraform, Ansible, Vagrant
- Jenkins, GitLab CI/CD, GitOps, FluxCD
- Monitoring & AIOps: Prometheus, Grafana, Dynatrace, Splunk, ELK, OpenTelemetry
- Version Control: Git, GitHub, Bitbucket
- Automation & Scripting: Bash, Python, Groovy, Go

AI & Machine Learning:

- Model Development (TensorFlow, PyTorch)
- Feature Engineering, Preprocessing, and Evaluation
- ML for RCA, Anomaly Detection, Classification
- NLP, Deep Learning, Data Analytics

Backend Development:

- Python, Flask, Django, FastAPI
- REST API design & microservice architecture
- Redis, PostgreSQL, MongoDB, MySQL

- API Security: OAuth 2.0, JWT, TLS/SSL

Other Tools & Practices:

- Jira, Confluence, Mural
 - Agile Methodologies & Continuous Delivery
 - Crossplane, Ligo (Cloud Native Tooling)
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EDUCATION

Bachelor of Science in Physics

University of Nairobi, Kenya

09/2016 – 09/2021

Rapid Tech Skills in Data Science and AI

Jomo Kenyatta University of Agriculture and Technology

03/2025 – 05/2025

CERTIFICATIONS

- AWS Cloud and DevOps Engineer Certification
 - Software Engineering – Backend Developer Certification
 - DevOps Practitioner (In Progress)
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REFEREES

Eng. Bernard Kairu

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