

# Felix Otieno Arogo

Cloud and Solution Engineer with hands-on experience in **cloud architecture design, system optimization, and secure cloud deployment**. Skilled in **AWS, Azure, and DevOps practices**, with a strong ability to bridge **technical and business requirements** through scalable, resilient, and cost-optimized solutions. Experienced in **customer-facing engineering, solution delivery, and cross-functional collaboration** with developers, product owners, and business stakeholders.

## WORK EXPERIENCE

### *Indra(IT and Consulting)*

Kenya, Nairobi (Onsite)

### Software Engineer

FEB/2024 - PRESENT

- Delivered **customer-focused technical solutions** by analyzing Jira tickets, preparing technical design documents, and collaborating with developers to enhance enterprise systems while ensuring quality and compliance.
- Led **service operations** for Environment Administration, Self-Service, and Social Media modules as Designated Responsible Individual (DRI), resolving incidents, debugging production issues, and implementing permanent fixes.
- Partnered with **external stakeholders and third-party providers** to guide **API onboarding** and ensure secure integration across heterogeneous environments.
- Designed and implemented **automation scripts and monitoring dashboards** (APEX, Jenkins) to improve deployment visibility and uptime reporting.
- Created **user manuals**, provided **customer support** for complex SQL queries, and enhanced reliability through proactive performance analysis and data visualization.
- Collaborated with cross-functional teams to execute **user acceptance testing (UAT)**, gather customer feedback, and refine system enhancements for better usability.
- Reduced **batch processing time by 40%** (13h → 8h) through optimized database queries and automation improvements.
- Decreased **system outages by 80%** (10 → 2/month) through end-to-end monitoring, telemetry, and root-cause resolution.

**Tech Stack:** Python, PL/SQL, C, C++, Jenkins, WebLogic, APEX, Postman, SQL Server

## CLOUD & SOLUTION PROJECTS

### **AWS Scalable & Highly Available Web Architecture — Café (2025)**

- Built a **multi-AZ, auto-scaling architecture** using EC2 Auto Scaling, ALB, launch templates, and CloudWatch alarms.
- Designed **secure networking** (public/private subnets, NAT gateway, security groups).
- Validated **auto scaling and fault tolerance** by simulating CPU load tests.

### **AWS Highly Available Web Application — Multi-AZ Resiliency (2025)**

- Configured **load-balanced, health-checked target groups** across AZs using ALB + ASG.
- Implemented **RDS Multi-AZ failover** and **layered security architecture** for HA validation.

### **AWS Security Labs — Offensive & Remediation (flAWS.cloud & CloudGoat) (2025)**

- Simulated real-world **cloud attack and remediation** workflows, including S3 misconfiguration, EC2 metadata SSRF, IAM privilege escalation, and EBS forensics.
- Strengthened expertise in **least privilege, credential hygiene, and secure automation**.

### **Azure — Key Vault & Always Encrypted for Azure SQL (2025)**

- Integrated **Azure Key Vault** with **Azure SQL Always Encrypted** using ARM templates.
- Configured **Entra ID app registration** for secure authentication and key isolation.

## EDUCATION

**University of Nairobi**, Bsc. Electrical and Electronics Engineering  
Kenya, Nairobi, 2017 - 2022

## CONTACT DETAILS

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[LinkedIn](#)

[GitHub/Portfolio](#)

Nairobi, Kenya (open to relocate)

## TECHNICAL SKILLS

**Backend:** Python, Node.js, PL/SQL, Bash

**Frameworks & OS:** Flask, Linux/Unix

**Databases:** Oracle, MySQL, SQL Server, DynamoDB

**DevOps Tools:** Jenkins, WebLogic, Git

**Cloud:** AWS (EC2, S3, IAM, VPC, CloudWatch, Lambda, CloudFormation), Azure (Key Vault, Sentinel, Defender), GCP (Foundational)

**Concepts:** Cloud Architecture, Infrastructure as Code, Solution Design, Cost Optimization, Cloud Security, Data Analytics, AI Readiness

## CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03), 2025

AWS Certified Cloud Practitioner (CLF-C02), 2025

AWS Certified AI Practitioner(AIF-C01), 2025

ALX Software Engineering Program Completion, 2023

## LANGUAGES

English (Fluent)