

ALICE W. MAINA

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Nairobi, Kenya

PROFESSIONAL SUMMARY

Dedicated and results-driven **Cloud Architect** with a background in Cloud and Data Engineering, specializing in deploying and maintaining scalable infrastructure. Experienced in AWS, Azure, Linux systems, and DevOps tools including Docker, Kubernetes, and Terraform. Skilled in database administration, backend API containerization, VPC configuration, and network security. Proven ability to deliver high-performance, reliable, and secure cloud solutions in collaborative and mission-driven environments.

TECHNICAL SKILLS

Cloud Platforms: AWS (re/Start, Solutions Architect), Microsoft Azure

Networking: DNS, TCP/IP, SSL, DHCP, VPN, Load Balancing, IPsec, Routing Protocols, SSH

Databases: PostgreSQL, MySQL, MariaDB, MongoDB, MSSQL Server

DevOps Tools: Terraform, Docker, Kubernetes

Operating Systems: Linux, Windows Server

Programming & Scripting: Python, Bash, PL/SQL, JavaScript

Observability Tools: Grafana, Prometheus,

Soft Skills: Strong communication, teamwork, problem-solving, adaptability

PROFESSIONAL EXPERIENCE

Cloud Architect (Volunteer)

Uamuzi Foundation - Nairobi, Kenya

Nov 2024 - Present

- Designed and managed MySQL Server database mirroring to enhance data resilience and ensure application continuity.
- Deployed and containerized backend APIs to ensure consistency, scalability, and portability across environments.
- Created and managed Virtual Private Clouds (VPCs) with secure remote access to protect organizational resources.
- Monitored server environments and optimized server health, ensuring reliable and high-performance operations.

Data Engineer Freelancer-Upwork

May 2024- Present

- Designed and optimized ETL pipelines using SAP Data Services, automating data extraction, transformation and loading.
- Developed PL/SQL scripts and stored procedures to streamline data processing and enhance performance.
- Conducted data cleaning and validation to ensure accuracy and reliability in enterprise data warehouses.
- Optimized SQL queries and database indexing strategies to improve data retrieval performance.

EDUCATION

Bachelor of Science in Applied Statistics with Computing

Karatina University, Nyeri, Kenya

Aug 2019 - Nov 2023

- Focus: Data Analysis, Statistical Methods, Programming, Data Visualization, Machine Learning, Probability & Hypothesis Testing.

CERTIFICATIONS & TRAINING

AWS Solutions Architect (*completed May 2025*)

AWS Academy

- Focus: Designing scalable systems, integrating cloud technologies, and performance optimization.

AWS re/Start Programme - Cloud Practitioner (*Completed 2024*)

Ajira Digital

- Focus: Linux, Python, Networking, Security, Cloud Domains (Computing, Storage, Databases).

Andela Training - Kubernetes and Cloud Native Associate

- Skilled in deploying, managing, and troubleshooting containerized applications using Kubernetes, with a solid understanding of cloud-native architecture, networking, storage, and observability tools.

REFEREES

- Available upon request

