




# ALICE MAINA

## Cloud Engineer | DevOps Engineer

 alicewmaina021@gmail.com

 +254715293947

 <https://github.com/alicewmaina>

 [linkedin.com/in/alicewmaina](https://www.linkedin.com/in/alicewmaina)

### Profile

As a dedicated Cloud and DevOps Engineer with a strong background in cloud infrastructure, containerization, and automation, I thrive at the intersection of technology and innovation. My journey began in IT support and data engineering, where I honed critical skills in Linux, networking, and databases. currently, as a DevOps Engineer, I design, deploy, and manage cloud-native solutions leveraging containerization (Docker, Docker Compose) and orchestration (Kubernetes) to ensure scalable and resilient infrastructure. Passionate about DevOps practices, I focus on automating deployments, improving system performance, and driving innovation in cloud environments.

### Professional Experience

<b>Uamuzi Foundation</b>	<b>Nov 2024 - Present</b>
<b>DevOps Engineer</b>	
<ul style="list-style-type: none"><li>Set up and manage MYSQL Server database mirroring to enhance data resilience and ensure continuous availability of critical business applications.</li><li>Create and manage VPCs with secure remote connections, ensuring reliable connectivity and enhancing data security for organizational resources.</li><li>Containerize backend APIs to make it easier to manage and deploy making them consistent, portable, and efficient.</li><li>Deploy and manage diverse server environments, monitoring server health and performance to ensure reliable operations and resource optimization.</li><li>Design and deploy cloud infrastructure using Docker, Kubernetes, and Terraform, ensuring scalable and automated deployment pipelines.</li><li>Implemented CI/CD pipelines with Jenkins and Git, automating software delivery and improving deployment efficiency.</li></ul>	
<b>ICT Authority   Nairobi, Kenya</b>	<b>Nov 2023-Nov 2024</b>
<b>IT Support officer</b>	
<ul style="list-style-type: none"><li>Administered Windows Server 2012 and Linux environments, ensuring high system availability.</li><li>Managed user accounts, access rights, and security protocols to safeguard sensitive data.</li><li>Installed and configured enterprise software, troubleshooting issues for seamless IT operations.</li><li>Monitored LAN/WAN networks, resolving connectivity issues to maintain continuous service uptime.</li></ul>	
<b>Freelancer-Upwork</b>	<b>May 2023-Sep 2023</b>
<b>Data Engineer</b>	
<ul style="list-style-type: none"><li>Designed and optimized ETL pipelines using SAP Data Services, automating data extraction, transformation, and loading.</li><li>Developed PL/SQL scripts and stored procedures to streamline data processing and enhance performance.</li><li>Conducted data cleaning and validation to ensure accuracy and reliability in enterprise data warehouses.</li><li>Optimized SQL queries and database indexing strategies to improve data retrieval performance.</li></ul>	

## Education

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2025/01-present	<b>Solutions Architect</b> <i>AWS Academy</i> Designing scalable architectures, integrating technologies, optimizing performance, and aligning solutions with business goals.
2024/09-2024/12 Nairobi, Kenya	<b>AWS re/Start Programme- Cloud Practitioner</b> <i>Ajira Digital</i> Cloud computing: Linux, Python, networking, security, and cloud domains: computing, storage, and Databases.
2019/08-2023/11 Nyeri, Kenya	<b>Applied Statistics with Computing</b> <i>Karatina University</i> Data analysis, statistical methods, programming, visualization, probability, hypothesis testing, and machine learning.

## Skills

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- Cloud & Containerization**
- AWS: EC2, S3, EBS, RDS, DynamoDB, ELB, IAM
  - Containerization & Orchestration: Docker, Docker , Kubernetes
  - Infrastructure as Code (IaC): Terraform, Ansible
  - CI/CD & Automation: Jenkins, Git, GitHub Actions
- Databases & Data Engineering**
- PostgreSQL, MySQL, MariaDB, MSSQL Server, Oracle, MongoDB
- Networking & Security**
- DNS, TCP/IP, SSL, DHCP, VPN, Load Balancing, IPsec, Routing Protocols
- Operating Systems**
- Linux (Debian, Ubuntu, CentOS), Windows Server

## Certifications

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- AWS Certified cloud practitioner

## References

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Available upon request