

Alex Kinyanjui Nduta

DevOps Systems Engineer

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Summary

Infrastructure Architect & Technical Lead with over 5 years of accelerated experience in engineering high-availability, production-grade systems. I have a proven track record for designing secure, repeatable Infrastructure-as-Code (IaC) environments and managing complex, multi-tenant SaaS and 3-tier architectures supporting high-concurrency workloads. Technical leader with experience directing IT operations for 1500+ devices and mentoring teams in SLA-driven incident response and modern DevOps methodologies.

Experience

Snr Server/Software Specialist - Site Reliability

St Christopher's International School (SCIS)

2024–Present (promoted)

- Leadership: Directed IT operations for 700+ users, maintaining 99.8% system uptime and leading a team of 3 technicians.
- Automation: Engineered IaC workflows using Ansible and PowerShell, reducing provisioning time from 4 hours to 30 minutes.
- SRE: Reduced MTTR by 30% through proactive monitoring and structured incident response protocols.

Network Systems Administrator - Network Engineer

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2022–2024

- Enterprise Migration: Orchestrated the large-scale migration of 700 users to a Windows Server domain environment with zero data loss.
- Network Reliability: Maintained 99.5% network uptime across 1500+ devices by administering Firewalls, VPNs, DNS, and DHCP.
- Maintained 99.5% network uptime while managing upgrades, patches, and infrastructure improvements.
- Automation: Developed custom Bash and Python scripts to automate routine system administration, increasing operational efficiency by 40%.
- Performance Monitoring: Implemented Nagios monitoring solutions, resulting in an 80% reduction in issue identification and resolution time.

TECHNICAL SKILLS

- Platform Infrastructure & Cloud:** Advanced expertise in AWS focusing on EC2, S3, Lambda, and VPC to support scalable R&D workloads; proficient in managing multi-tenant infrastructure with a focus on data isolation and cost control.
- Orchestration & MLOps Readiness:** Mastery of Docker and Kubernetes for horizontal scaling and workload isolation; experienced in migrating legacy workloads to containerized environments optimized for performance and reliability.
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- **Infrastructure as Code (IaC) & GitOps:** Experience in Terraform for resource provisioning and Ansible for configuration management; proficient in Python, Bash, and PowerShell for building automated deployment frameworks and MCP server-style process automation.
- **Observability & Reliability:** Architecting full-stack monitoring using Nagios, Grafana, Prometheus, and Splunk to maintain 99.9% uptime; specialized in tuning alerts and logging for operational insights and reducing MTTR by 30%

SELECTED TECHNICAL PROJECTS

- **Enterprise Odoo SaaS Platform | Python, Docker, Kubernetes, PostgreSQL**
 - Architected and deployed a multi-tenant ERP solution for a live commercial client, ensuring 99.9% uptime and data isolation.
 - Engineered automated backup and recovery workflows for PostgreSQL, securing critical business data.
- **Twender: 3-tier Distributed | Django, MySQL, Kubernetes, Docker:**
 - Designed a decoupled microservice architecture consisting of Swagger UI, Django REST logic tier and MySQL data tier
 - Orchestrated deployment using Kubernetes services and deployments to enable horizontal scaling and high availability
- **Budgelify: High-concurrent API | FastAPI, Python, Linux, Kotlin:**
 - Developed a high-performance budgeting API integrated it with Jetpack Compose for the android client
 - Automated the backend deployment on Linux environments, focus on API latency reduction and endpoint security

Education

- **Nano-Degree, Software Engineering** - [ALX Africa](#) | 2023-2024
- **Diploma, Information Technology** - [Thika Technical Training Institute](#) | 2017–2022

Certifications

- ProLUG Enterprise Linux Administration
- Google Certified Cyber Security professional
- Kubernetes Cloud Native Associate(KCNA)
- Certified AWS Solutions Architect
- Certified AWS Cloud Practitioner