

# Alex Kinyanjui Nduta

## Systems Engineer

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## Summary

Highly accomplished Systems Engineer with over 5 years of experience specializing in Linux (Debian/UCS) and Windows server environments. I have a proven expertise in managing 1500+ node networks with 99.9% uptime and leading the migration of legacy services to modern IaC (Ansible, Terraform) and containerized architectures.

## 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

*Network Systems Administrator - Network Engineer*

*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

- **Private Cloud & Platform Engineering:** Experience in public(AWS, GCP) and private Open Source cloud environments such as Proxmox, XCP-ng and multi-tenant infrastructure; AWS Certified Solutions Architect.
- **Orchestration & Containers:** Advanced management of Docker, Kubernetes, and Proxmox ; experienced in migrating legacy workloads to containerized environments.
- **Infrastructure as Code (IaC) & Automation:** roficient in Terraform for resource provisioning and Ansible for configuration management ; expert in Python, Bash, and PowerShell for end-to-end process automation
- **CI/CD & Observability:** Engineering automated deployment pipelines using GitHub Actions ; architecting fullstack monitoring using Nagios, Grafana, Prometheus, and Splunk to maintain 99.9% uptime
- **Database & Security:** administration of PostgreSQL (Odoo backend) and MySQL ; implementing Snort IDS, automated patching, and VPN/Firewall security protocols.

- **IT Leadership & Methodology:** Lead experience managing technical teams of 3+ technicians ; grounded in ITIL principles and SLA-driven Incident Response
- **Scripting & Automation:** Python, Bash, and PowerShell for automating responses to recurring system issues.

## SELECTED TECHNICAL PROJECTS

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- **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

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

## Certifications

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