

## Marvin Wandati Kinyanjui

DevOps Engineer

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Nairobi, Kenya

### SUMMARY

Certified DevOps Engineer with over 2 years of experience enhancing software delivery via GitOps, AI-driven observability, and Zero Trust Security. Proficient in Kubernetes, Docker, IaC (Terraform, Ansible), FinOps, and AIOps for optimized, reliable, and scalable cloud solutions. Drives efficiency through platform engineering, multi-cloud governance, and sustainable cloud-native practices.

### WORK EXPERIENCE

#### DevOps Engineer

Ryanada Limited | February 2025 – Present

- **Backup and Disaster Recovery:** Designed and implemented an automated backup strategy using Kasten K10 for Kubernetes workloads, ensuring 99.9% recovery success. Integrated MinIO S3 for cost-effective object storage, significantly reducing recovery time by 40% compared to traditional methods.
- **Persistent Storage Management:** Configured and optimized Longhorn for resilient persistent volume management, improving data availability and minimizing downtime. Implemented robust snapshot and disaster recovery features, reducing data loss risk by 30%.
- **AI-Driven Observability & Alerting:** Deployed and optimized the ELK stack (Elasticsearch, Logstash, Kibana) for centralized log analysis. Configured ElastAlert for proactive alerting on critical metrics (CPU >95%, Latency >3000ms) via Slack, improving incident response time by 60%. Contributed to standardizing monitoring toolchains for enhanced visibility.
- **Kubernetes Optimization & Predictive Analytics:** Integrated Lens for real-time Kubernetes cluster monitoring. Leveraged CAST AI not just for monitoring, but for *applying* predictive analytics to resource utilization trends, enabling proactive scaling decisions and achieving 20% cost savings. Focused on optimizing Kubernetes resource management to improve efficiency and developer experience.
- **Synthetic Monitoring for Web Performance:** Implemented comprehensive synthetic monitoring (HTTP ping, single/multi-step browser tests) using Playwright to proactively detect performance issues, reducing MTTD by 50% and ensuring 99.0% application availability.

## PROJECTS

- **End-to-End DevOps Implementation for E-Commerce:** Designed and deployed a highly available e-commerce platform on AWS using Terraform for Infrastructure as Code (IaC), S3 for backend storage, DynamoDB for state locking, and Kubernetes for container orchestration. Implemented GitHub Actions for CI/CD and Argo CD for GitOps-driven deployments, reducing manual interventions by 80% and enhancing system availability.
- **Enterprise MERN Stack DevSecOps Implementation:** Deployed a secure 3-tier MERN stack application on AWS EKS using Terraform, Jenkins, and Argo CD. **Embedded security throughout the CI/CD pipeline** by integrating automated security scanning (SonarQube, Trivy) and static analysis (SAST), reducing security vulnerabilities by 50%. Enhanced deployment speed by 45% and system reliability by 40% through comprehensive monitoring with Prometheus & Grafana.
- **Service Mesh Security & Traffic Management with Istio:** Secured microservices communication using Istio service mesh, enforcing mTLS via Envoy proxy. Configured canary deployments for controlled rollouts and integrated Kiali for real-time service mesh visualization and monitoring. Improved overall network security posture and reduced unauthorized access by 35%.
- **Automated Jenkins Build Log Storage with AWS S3:** Developed a Shell script to automate the offloading of Jenkins build logs to AWS S3, significantly cutting storage costs by 70% through S3 lifecycle management policies and archival to S3 Glacier.
- **Website Monitoring & Automated Recovery:** Implemented robust website monitoring using Prometheus & Grafana, establishing alerts for critical indicators like CPU spikes and Redis health. Integrated Alert manager for automated notifications to response teams, reducing critical incident downtime by 40%.

## EDUCATION

- **TechworldWithNana | DevOps Bootcamp** April – July 2024
  - *Technologies:* Linux, Git, Docker, Kubernetes, AWS, Terraform, Ansible, Jenkins, Prometheus, Python, Nexus
- **Moringa School | Software Engineering** May – Nov 2023
- **JKUAT | Bachelor of Science in Information Technology** May 2020 – Dec 2022 | Second Class Upper Division

## CERTIFICATIONS

- Kode Kloud DevOps Certifications x 10 | March 2025
- AWS Educate Cloud Certifications x 8 | July 2024
- Certified DevOps Practitioner | TechworldWithNana | July 2024