RODGERS BIWOTT

SENIOR PLATFORM ENGINEER | SITE RELIABILITY ENGINEER | DEVSECOPS

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PROFESSIONAL SUMMARY

Senior DevOps, Platform and DevSecOps Engineer with 7+ years of experience engineering and supporting cloud-native infrastructure across AWS, Azure and on-premises Kubernetes. Delivers infrastructure automation, CI/CD and GitOps workflows, security controls and observable services using Terraform, Ansible, Helm and Argo CD. Applies SRE practices including service-level indicators and objectives (SLIs/SLOs), error budgets, incident investigation, capacity management and recovery verification. Experienced in securing software delivery, operating PostgreSQL-backed systems and documenting reliable operational procedures.

CORE COMPETENCIES

Kubernetes platform engineering and high availability | GitOps and controlled release promotion | CI/CD security gates and cloud security | SLIs/SLOs, incident response and root-cause analysis | Metrics, logs and distributed tracing | Infrastructure as Code | Backup, restore and disaster recovery | Linux and network troubleshooting

PROFESSIONAL EXPERIENCE

Senior DevOps & DevSecOps Engineer | Avantech Ltd | Remote | Nov 2025 – Present

- Standardised Jenkins and Azure DevOps pipelines across 70+ repositories, integrating build, testing, security validation, artifact publishing and controlled deployment workflows.
- Engineered Kubernetes application delivery with Helm and Argo CD, supporting Git-controlled environment promotion, deployment reconciliation, drift detection and rollback procedures.
- Implemented platform safeguards including RBAC, network isolation patterns, non-root containers, security contexts, resource requests and limits, health probes and autoscaling.
- Built metrics, logs and tracing observability with Prometheus, Grafana, OpenTelemetry, Loki and Tempo; applied SLIs/SLOs, error budgets, golden-signal monitoring and burn-rate alerting to reliability investigations.
- Integrated SonarQube, Trivy, OWASP ZAP, Dependency-Check and Checkov into delivery workflows; used Vault and least-privilege patterns to strengthen secrets and infrastructure security.
- Automated environment provisioning and operational configuration with Terraform, Ansible, Bash and PowerShell; documented troubleshooting, rollback and recovery procedures.

Senior DevOps Engineer | Crafted Systems Ltd | Nairobi, Kenya | Jan 2025 – Oct 2025

- Built and operated highly available bare-metal RKE2 clusters using Ansible, Kube-VIP and MetalLB, including platform networking and storage services with Longhorn, Ceph and MinIO.
- Implemented Argo CD and Jenkins delivery pipelines, Vault-backed secrets, Prometheus/Grafana/OpenTelemetry monitoring and KEDA/HPA scaling for Kafka workloads.

Senior DevSecOps Engineer | Nathan Digital | Nairobi, Kenya | Jul 2023 – Dec 2024

- Automated AWS EC2, ECS and EKS infrastructure using Terraform, Ansible and Python; supported migration from EC2/Docker Swarm to ECS/EKS.
- Implemented GitOps and CI/CD security checks with Argo CD, SonarQube, Trivy, OWASP ZAP, Checkov and InSpec, alongside Prometheus, Grafana and OpenTelemetry observability.

DevOps Engineer | Uamuzi Foundation | Nairobi, Kenya | Apr 2022 – Jun 2023

- Automated Azure infrastructure using Terraform and Argo CD; operated Docker and Kubernetes services with NGINX Ingress and Prometheus/Grafana monitoring.

DevOps Engineer | ISON Technologies | Nairobi, Kenya | Apr 2019 – Mar 2022

- Engineered Jenkins, Git, Maven and Ansible pipelines and automated Docker/Kubernetes deployments to AWS EKS and Azure AKS using Terraform.
- Implemented NGINX Ingress, cert-manager, MetalLB, Vault and Prometheus/Grafana/ELK monitoring to support secure application operations.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EC2, ECS, EKS), Azure (AKS), Oracle Cloud Infrastructure, Terraform, Ansible; bare-metal RKE2.

Platform Engineering & Kubernetes: Kubernetes, Docker, Helm, Argo CD, NGINX Ingress, cert-manager, KEDA/HPA, Kube-VIP, MetalLB; RBAC, NetworkPolicies, probes and resource governance.

CI/CD & GitOps: Jenkins, Azure DevOps, GitHub Actions, GitLab CI/CD; GitOps reconciliation, release promotion, drift detection and rollback.

DevSecOps & Supply Chain Security: SonarQube, Trivy, OWASP ZAP, Dependency-Check, Checkov, InSpec, Vault; security gates, secrets management, container hardening.

Observability & SRE: Prometheus, Grafana, Alertmanager, OpenTelemetry, Loki, Tempo, ELK; SLIs/SLOs, error budgets, golden signals, incident response and runbooks.

Databases, Backup & Disaster Recovery: PostgreSQL, SQL Server, Redis, MinIO/S3-compatible storage, Ceph, Longhorn; encrypted backups, restore verification and recovery procedures.

Linux, Networking & Automation: Ubuntu, RHEL, CentOS, Windows Server; Bash, Python, PowerShell; TLS, ingress, Linux and network troubleshooting.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Information Communication Technology — Jaramogi Oginga Odinga University of Science and Technology (JOOUST), Second Class Upper Division

Certified Kubernetes Administrator (CKA) | Kubernetes and Cloud Native Associate (KCNA) | Prometheus Certified Associate (PCA) | AWS Certified SysOps Administrator | Oracle Cloud Infrastructure DevOps Professional | Oracle Cloud Infrastructure CyberOps Associate | Linux Foundation DevSecOps training