

Providence Annor Asemah

DevOps Engineer | Kubernetes · Terraform · GitOps · Cloud Infrastructure

Results-driven Cloud Platform Engineer with expertise in Kubernetes, GitOps (ArgoCD), Istio service mesh, Terraform IaC, and CI/CD automation. Currently at Betika, delivering 80%+ improvements in deployment speed, driving security hardening via cert-manager and HCP Vault integration, and leading Istio service mesh migrations on GKE. Pursuing an MSc in Cybersecurity and Digital Forensics at KNUST.

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WORK EXPERIENCE

DevOps / Cloud Platform Engineer

Dec 2023 – Present

Ionix International DMCC (Betika) · Remote

- Replaced internal-nginx with an Istio internal gateway, updating Helm charts and preserving internal TLS via LoadBalancer.
- Evaluated three Istio upgrade approaches; authored full runbook covering upgrade procedure, pre-upgrade checklist, and rollback steps.
- Added cert-manager to staging environment with scoped service account and GCP CA pool integration.
- Contributed to terraform-gke-clusters, terraform-gcp-projects-iam, terraform-gcp-pki, and terraform-hcp-vault repositories.
- Orchestrated 15+ GKE deployments using Helm and ArgoCD, reducing deployment time by 80% and eliminating manual kubectl interventions.
- Cut deployment duration by 50% through automated Go and Next.js deployments to GCP VMs.
- Boosted deployment frequency by 80% via GitHub Actions CI/CD pipelines, accelerating releases from biweekly to weekly.
- Mitigated security risks by 95% through preventive vulnerability scanning with Trivy.
- Reduced configuration drift by 60% via Ansible server configuration management.
- Improved onboarding efficiency by 30% by designing comprehensive visual deployment documentation in Confluence.

Software DevOps Engineer

Jul 2021 – Sept 2024

Turntabl Ghana Limited · Accra, Ghana

- Built scalable CI/CD infrastructure automating builds, testing, and deployments across multiple projects, increasing productivity by 90%.
- Engineered disaster recovery strategy for self-hosted GitLab with automated backups, regional replication, and failover servers.
- Provisioned and secured a self-managed GitLab server on AWS EC2 restricted to company VPN, reducing external access risks by 80%.
- Containerised applications with Docker and built GitLab CI/CD pipelines, improving deployment efficiency by 85%.
- Deployed microservices to AWS Kubernetes clusters using Helm, reducing deployment errors by 60%.
- Optimised AWS costs by 30% through automated cleanup of unused Docker images in ECR.
- Led deployments of Java Spring Boot, React, Angular, and Kotlin applications, reducing rollout times by 65%.

Software Engineer, TLC Operator

Sept 2021 – Dec 2021

Turntabl Ghana Limited · Accra, Ghana

- Facilitated training programmes for 50 new junior software engineers, achieving a 95% satisfaction rate.
- Augmented productivity by 40% through facilitation of networking activities during training.

Junior Software Engineer

Nov 2020 – Jul 2021

Turntabl Ghana Limited · Accra, Ghana

- Collaborated on developing an IntelliJ IDEA Plugin to track JVM details and monitor live production applications, improving monitoring accuracy by 40%.
- Led development of the Turntabl-Exe Project, streamlining recruitment onboarding and boosting efficiency by 70%.
- Managed PostgreSQL database for data storage and recovery, increasing data retrieval speed by 85%.

PROJECTS

AWS PostgreSQL Cloud Infrastructure

AltSchool Africa — Diploma in Cloud Engineering · Capstone Project

- Provisioned full AWS PostgreSQL infrastructure using Terraform: RDS in private subnets, security groups, parameter groups, and automated backups with 7-day retention.
- Implemented secure database access via SSM-based EC2 jumpbox with port-forwarding, eliminating public RDS exposure.
- Automated schema deployment via GitHub Actions CI/CD pipeline running Terraform plan and apply on push to main.
- Applied least-privilege IAM policies and enforced encryption at rest and in transit, targeting AWS free-tier cost optimisation.

TECHNICAL SKILLS

DevOps Tools	Kubernetes (GKE, EKS) · Helm · ArgoCD · Istio Service Mesh · cert-manager · Docker · Minikube
CI/CD	GitHub Actions · GitLab CI/CD · Jenkins · Ansible
Infrastructure as Code	Terraform
Cloud Providers	GCP · AWS
Security & Secrets	HCP Vault · GCP CA Pool / PKI · IAM Least-Privilege · Trivy
Monitoring	Prometheus · Grafana · ELK Stack
Programming	Shell Scripting · Python · JavaScript · Java
Databases	PostgreSQL · MySQL

EDUCATION

MSc Cybersecurity and Digital Forensics (In Progress)

Kwame Nkrumah University of Science and Technology (KNUST), Ghana

Nov 2025 – Nov 2026

Diploma in Cloud Engineering

AltSchool Africa

Oct 2024 – Oct 2025

BSc Computer Science

University of Cape Coast, Ghana

2016 – 2020