

CHIOMA VANESSA EGWUIBE

Cloud & DevOps Engineer | AWS Certified | Terraform | Kubernetes | CI/CD | GitOps
UK | +44 7350 167667 | chiomaegwuibe@gmail.com | [LinkedIn](#) | [GitHub](#) | [Github organisation](#) | [GitLab](#) | [Medium](#)

PROFESSIONAL PROFILE

AWS Certified Cloud and DevOps practitioner with hands-on, project-based experience designing, automating and documenting cloud-native deployments across AWS and Azure. Built Terraform-based AWS infrastructure, containerised applications with Docker, created CI/CD pipelines using Jenkins, GitLab CI/CD, GitHub Actions and Azure DevOps, and implemented GitOps delivery with Argo CD on Kubernetes, AKS and EKS. Comfortable with VPC, IAM, EC2, RDS, ECS, ECR, ALB, Lambda, EventBridge, ACR, CloudWatch, Prometheus and Grafana. Strong operations background in documentation, stakeholder coordination and service quality.

Target roles: *Cloud Engineer · Junior/Associate DevOps Engineer · Cloud Support Engineer · Associate Platform Engineer · Junior SRE / Cloud Operations Engineer*

CORE TECHNICAL SKILLS

Cloud: AWS (EC2, S3, RDS, VPC, IAM, Lambda, EventBridge, ECS, EKS, ECR, ALB, CodePipeline, CodeBuild, CodeDeploy, CloudWatch) · Azure (AKS, ACR, Azure DevOps)

IaC & Automation: Terraform, CloudFormation, Boto3, Bash, Python (basic), Ansible, YAML, Git, GitHub, GitLab

CI/CD & GitOps: Jenkins, GitLab CI/CD, GitHub Actions, Azure Pipelines, AWS CodePipeline/CodeBuild/CodeDeploy, Argo CD

Containers & Orchestration: Docker, Docker Compose, Kubernetes, AKS, EKS, Minikube, K3s, Helm

Monitoring & Security: CloudWatch, Prometheus, Grafana, Blackbox Exporter, SonarQube, Trivy, Nexus, IAM roles/policies, secrets handling

Networking: VPCs, subnets, route tables, internet/NAT gateways, load balancers, DNS, Route 53, Linux, Nginx, MySQL/MariaDB

CLOUD & DEVOPS EXPERIENCE

Cloud & DevOps Project Practitioner | [Independent Portfolio Projects](#) Apr 2026 – Present | UK

- Built and documented production-style cloud and DevOps labs across AWS and Azure, focusing on automation, repeatability and deployment traceability.
- Implemented an end-to-end Azure AKS GitOps pipeline: GitHub changes triggered Azure DevOps CI, Docker images pushed to ACR, Kubernetes manifests updated, and Argo CD synced the desired state to AKS.
- Designed AWS container deployments using ECS EC2 launch type, ECR, task definitions, ALB, target groups, health checks, IAM execution roles and CloudWatch logging.
- Built Jenkins and GitLab CI/CD workflows covering build, quality/security checks, image publishing, manifest updates and Argo CD-driven deployments.
- Added observability using Prometheus, Grafana, Blackbox Exporter and CloudWatch, validating both cluster/workload health and external application availability.

Cloud & DevOps Engineering Trainee | [Cloudboosta Academy](#) Aug 2024 – Apr 2026 | UK

- Completed hands-on training covering AWS foundations, Linux, networking, IAM, Terraform, CI/CD, Docker, Kubernetes, GitOps, monitoring and cloud architecture documentation.
- Provisioned AWS environments using Terraform and CloudFormation including EC2, S3, RDS, VPC, IAM, security groups, load balancers, autoscaling, bastion hosts and backend configuration.
- Built CI/CD pipelines with GitLab CI/CD, Jenkins and AWS-native services to automate build, test, image packaging and deployment workflows.
- Containerised applications with Docker and Docker Compose; deployed workloads to Kubernetes using manifests and GitOps workflows with Argo CD and Helm.
- Used CloudWatch, Prometheus and Grafana to improve visibility into deployments, logs and application health during lab validation.

SELECTED CLOUD & DEVOPS PROJECTS

AWS Three-Tier Web Application | [Terraform](#) · [ECS Fargate](#) · [Aurora PostgreSQL](#) · [ElastiCache Redis](#) · [ALB](#) · [ACM](#) · [Cloudflare](#) · [GitHub Actions](#) · [CloudWatch](#) · [SNS](#) · [Grafana](#)

- Designed and provisioned a production-style three-tier architecture on AWS using Terraform, including a custom VPC, public/private subnets, NAT instance, security groups, ECS Fargate cluster running a Flask application, Aurora PostgreSQL Serverless v2, and ElastiCache Redis with a cache-aside pattern.
- Secured the application end-to-end: ACM-issued TLS certificate on the ALB, Cloudflare as CDN and WAF (Full Strict SSL, three custom WAF rules), and AWS Secrets Manager replacing hardcoded credentials in ECS task definitions.
- Built a GitHub Actions CI/CD pipeline triggered on application code changes, automating Docker image builds, ECR pushes, and forced ECS service redeployments with zero manual steps.

- Implemented monitoring and alerting using CloudWatch alarms (ECS CPU, ALB unhealthy hosts, Aurora connections), SNS with hardened unsubscribe handling, and a Grafana Cloud dashboard with cross-account IAM access using confused deputy protection.
- Validated the full stack end-to-end including alarm triggering via ECS Exec and complete CI/CD pipeline runs; architecture and evidence documented at devopsbychioma.co.uk.

Azure AKS CI/CD & GitOps Pipeline | *Azure DevOps · ACR · AKS · Docker · Kubernetes · Argo CD*

- Built a full delivery flow from GitHub source to AKS deployment using Azure DevOps for CI and Argo CD for CD, keeping build and deployment responsibilities separated.
- Configured the pipeline to build, tag and push Docker images to ACR, update Kubernetes manifests with the new image tag, and trigger automatic rollout via Argo CD auto-sync.
- Exposed the application via Kubernetes LoadBalancer service and validated live updates by changing the app version and confirming automatic rollout without manual kubectl step

AWS EKS Hotstar Clone DevOps Pipeline | *Terraform · EKS · Jenkins · ECR · Docker Hub · Argo CD · SonarQube · Trivy · Prometheus · Grafana*

- Provisioned VPC, subnets, IAM roles, EKS cluster, managed node group and ECR repository using Terraform; configured Argo CD auto-sync for Git-driven deployments.
- Built a Jenkins pipeline triggered by GitHub webhooks to run SonarQube analysis, Docker build, Trivy scan, registry push, manifest patching and GitOps handoff.
- Implemented monitoring with Prometheus, Grafana and Blackbox Exporter to track pod health, resource usage and external endpoint availability post-deployment.

AWS ECS Application Deployment | *ECS EC2 · ECR · ALB · Target Groups · IAM · CloudWatch · Docker*

- Containerised a web application, pushed to ECR, and deployed as an ECS service backed by EC2 with task definitions covering CPU/memory settings and awsvpc networking.
- Integrated an internet-facing ALB, listener, target group and health check path to route public HTTP traffic only to healthy containers.
- Resolved real deployment issues including port mismatch, unhealthy target checks and ALB accessibility; documented cleanup steps to avoid ongoing AWS charges.

AWS Native CI/CD for Full-Stack Application | *CodePipeline · CodeBuild · CodeDeploy · EC2 · React · Node.js · MySQL · Nginx*

- Built an AWS CI/CD workflow for a React frontend, Node.js backend and MySQL database using GitHub as source control and CodePipeline as the deployment orchestrator.
- Used CodeDeploy appspec hooks and Linux scripts to copy artefacts to EC2, install/update dependencies, restart Nginx/PM2 and complete deployment actions.

TRANSFERABLE PROFESSIONAL EXPERIENCE

Operations & Administration Coordinator | [The Heritage School](#) Aug 2017 – Jul 2025 | UK

- Maintained structured digital records, documentation and reporting processes, improving accuracy, traceability and consistency.
- Coordinated information flow across internal teams and stakeholders — directly transferable to DevOps handovers, incident updates and technical documentation.
- Followed repeatable procedures, tracked operational tasks and supported process improvements, building habits in organisation and service delivery.

Operations Manager | [CeeProteins](#) Jan 2013 – Feb 2016

- Managed daily operations, service quality and workflow coordination across a small team, developing operational ownership and troubleshooting discipline.
- Improved efficiency through structured processes, quality checks and practical problem solving.

CERTIFICATIONS & PORTFOLIO

AWS Certified Solutions Architect – Associate (2025)

Portfolio: GitHub/GitLab repositories, Medium write-ups, architecture diagrams, implementation screenshots and video demos.