

# Oluwatosin Jegede

CLOUD & DEVOPS ENGINEER | AWS · GCP · TERRAFORM · KUBERNETES | SRE & DEVSECOPS PRACTICES

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Location: Chester, United Kingdom

Portfolio: <https://oluwatossin.github.io>

## PROFESSIONAL SUMMARY

Cloud and DevOps Engineer specialising in the design, automation, and governance of production-grade cloud platforms across AWS and GCP. I build resilient systems using Terraform-driven infrastructure, Kubernetes-based service delivery, and CI/CD pipelines designed for scale, security, and operational clarity.

I integrate SRE practices such as SLIs, SLOs, error budgets, and golden-signal monitoring to improve reliability, reduce operational load, and shorten incident response cycles. I leverage AI-assisted engineering workflows, including LLM-supported design exploration, infrastructure as code, code generation, testing, security analysis, and incident investigation, to accelerate delivery while preserving correctness, security, and compliance.

My work emphasises responsible automation, observability-first design, and cost-aware decision-making, ensuring that modern cloud and AI-enabled systems remain predictable, auditable, and sustainable in regulated and high-impact environments.

## CORE COMPETENCIES

**Cloud:** AWS (EKS, ECS, SageMaker, Lambda, RDS, VPC), GCP | **IaC:** Terraform, CloudFormation | **CI/CD & GitOps:** GitHub Actions, Jenkins, Argo CD, Helm | **Containers & Platform:** Kubernetes (EKS, Istio), Docker | **AI-Assisted Engineering:** LLM-supported infrastructure design, code generation, test authoring, refactoring, and incident analysis (GitHub Copilot, ChatGPT Codex-class models) | **Observability & SRE:** Prometheus, Grafana, CloudWatch, SLIs/SLOs, error budgets, incident automation | **Security & Compliance:** DevSecOps, IAM, KMS, PCI-DSS, GDPR, CIS Benchmarks, OPA, Checkov | **FinOps & Governance:** Cost Explorer, Savings Plans, right-sizing, cost-performance trade-off analysis | **Scripting:** Python, Bash

## WORK EXPERIENCE

### Help.NGO (Humanitarian OpenStreetMap / TAK Project) | Cloud Advisor

Dec 2023 – Present (part-time advisory)

Advised on secure, compliant, and resilient AWS environments supporting humanitarian mapping operations.

- Guided teams on Terraform-driven IaC standardisation and GitHub Actions automation.
- Strengthened observability and data-protection frameworks aligned with GDPR and humanitarian standards.
- Supported documentation and risk analysis for cloud deployments in sensitive operational contexts.

### Sovereign Technology & Innovation Limited — Cloud & DevOps Engineer

Aug 2024 – Jul 2025

Architected and operated a production-grade financial services platform built on AWS and designed for resilience and automation.

- Designed multi-node EKS clusters with secure networking, autoscaling, and Istio-based service mesh to sustain 99.95 percent uptime.
- Built Terraform modules and GitHub Actions pipelines that enabled consistent, repeatable deployments across blue/green environments.
- Implemented observability baselines using Prometheus, Grafana, and CloudWatch, improving incident visibility and reducing MTTR from 45 minutes to under 15 minutes.
- Integrated Checkov, OPA, and AWS Config for policy-as-code validation and continuous compliance, supporting PCI-DSS requirements.
- Delivered FinOps dashboards and cost analysis tooling using Lambda and Cost Explorer APIs, reducing operational expenditure by 30 percent.

## Afren.ai — DevOps Engineer (Full-Time, Remote)

Dec 2022 – Jul 2024

Strengthened platform reliability and automated cloud operations across AWS, supporting distributed services used internally.

- Automated builds, deployments, and environment provisioning using CI/CD pipelines and infrastructure as code, reducing manual effort by 60 percent and enabling reusable, self-service workflows for engineering teams.
- Rebuilt infrastructure into modular Terraform platform components, eliminating configuration drift and enabling consistent, repeatable environment creation across workloads.
- Delivered CloudWatch dashboards, golden-signal metrics, and centralised log pipelines, improving service visibility and operational reliability by 45 percent.
- Enhanced alerting, incident response, and troubleshooting workflows, cutting MTTR by 40 percent and standardising recovery playbooks across services.
- Operated and hardened Linux-based production environments, resolving OS-level, networking, and resource utilisation issues across EC2 instances and container hosts to improve runtime stability and reduce incident recurrence.

## Independent Cloud Architect (Contract Engagements alongside Full-Time Roles)

May 2021 – Present | Global

Delivered cloud architecture and automation across fintech, healthtech, and enterprise projects.

- Designed multi-cloud, highly available workloads using load balancing, autoscaling, and replication strategies achieving 99.9 percent uptime.
- Built internal Terraform and ArgoCD frameworks that reduced provisioning time by 60 percent.
- Implemented DevSecOps pipelines with vulnerability scanning, drift detection, and automated rollback logic.
- Introduced FinOps cost optimisation workflows saving clients £3,000–£5,000 per month.

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## PORTFOLIO CASE STUDIES

- AegisTickets (AWS EKS):** Engineered a reliability-focused production system using SLIs, SLOs, error budgets, and golden-signal monitoring to guide autoscaling and operational decisions.
- Enterprise AI/ML Platform:** Applied SRE principles to AI workloads, implementing observability, alerting, and cost-performance trade-off controls, reducing inference costs by ~60 percent.
- Cloud-Native Job Platform:** Built a resilient AWS application with health-checked deployments, automated recovery workflows, and zero-downtime delivery.
- AWS Cloud Risk Assessment:** Identified reliability and security risks across IAM, storage, networking, and TLS configurations aligned with CIS benchmarks.

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## CERTIFICATIONS

- AWS Certified DevOps Engineer – Professional (2025)
- AWS Certified Machine Learning Engineer – Associate (2025)
- AWS Certified Security – Specialty (2023)
- AWS Certified Developer – Associate (2023)
- AWS Certified Solutions Architect – Associate (2022, renewed 2024)
- Google Associate Cloud Engineer (2024)
- Kubernetes & Cloud Native Associate (2025)
- GitHub Advanced Security (2025)

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## EDUCATION

M.Sc. Animal Biotechnology – Federal University of Agriculture, Abeokuta | B.Tech. Animal Production & Health – FUT Akure | Diploma, Computer Engineering – Datashield Institute

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## ADDITIONAL INFORMATION

- Availability: Immediate start
- References: Available upon request