

# Oluwatosin Jegede

## CLOUD CONSULTANT | DEVOPS ENGINEER | ML INFRASTRUCTURE DELIVERY SPECIALIST

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

### PROFESSIONAL SUMMARY

AWS-certified Cloud and DevOps Engineer with 3+ years of experience designing, securing, and operationalizing machine learning infrastructure on AWS. Specialized in MLOps lifecycle enablement, real-time model hosting using SageMaker and Flask, and automating CI/CD workflows for GenAI and AI/ML workloads. Demonstrated track record of delivering ML pipelines, observability dashboards, and compliance automation at scale. Adept at engaging with customers to gather requirements, architect solutions, and lead end-to-end cloud ML deployments with security, performance, and scalability in mind.

### CORE COMPETENCIES

- Cloud & ML Services: SageMaker, Bedrock (learning), Lambda, Step Functions, EC2, ECS, EKS, OpenSearch
- MLOps Engineering: Model deployment (Flask/SageMaker), CI/CD pipelines (GitHub Actions, CodePipeline), endpoint monitoring
- Infrastructure as Code: Terraform (modular), AWS CloudFormation, Ansible
- GenAI Enablement: Prompt engineering, LLM integration, VectorStore architecture (learning)
- Security & Compliance: IAM, KMS encryption, AWS Config, GDPR, CIS benchmarking
- Monitoring & Observability: Prometheus, Grafana, CloudWatch, custom metric dashboards
- Languages & Tools: Python, Bash, SQL, PowerShell, Docker, Git, GitHub, Jenkins
- Client Delivery: Stakeholder engagement, solution design, documentation, technical onboarding

### PROFESSIONAL EXPERIENCE

#### Sovereign Technology & Innovation Limited

##### DevOps Engineer | Aug 2024 – Present

- Architected and deployed secure, highly available AWS infrastructure, reducing operational costs by 20% through automation and instance right-sizing.
- Led Terraform-based infrastructure automation, cutting deployment time by 40% across environments.
- Executed hybrid cloud migration, integrating legacy systems into AWS with 30% lower maintenance overhead via VPC peering.
- Integrated Prometheus, Grafana, and CloudWatch, achieving a 55% reduction in Mean Time to Detect (MTTD).

#### Afren Incorporated

##### DevOps Engineer (Remote) | Dec 2023 – Present

- Provisioned cloud-native ML platforms across AWS regions, automating pipeline stages from data ingestion to model inference using Step Functions and Lambda.
- Built modular infrastructure for SageMaker endpoints with encrypted APIs and IAM policies, ensuring successful compliance validation during internal audits.
- Established centralized logging and alerting for ML apps, reducing MTTD by 40% using CloudWatch Logs, SNS, and custom alarms.

##### Freelance Cloud Architect | Contract Roles | May 2021 – Present

- Engineered cross-cloud failover systems on AWS and GCP, maintaining 99.99% uptime for fintech and healthcare platforms.
- Developed scalable ML inference pipelines with SageMaker and GitHub Actions, boosting auto-scaling capabilities.
- Built CI/CD pipelines with caching and canary deployments, increasing deployment frequency by 50%.

## SELECT PROJECTS

- GenAI Fraud Detection Pipeline (AWS)

Trained and deployed fraud models using SageMaker, integrated with Flask REST APIs and real-time monitoring, simulating LLM-style inference behaviors.

- ML Monitoring & Compliance Stack

Built an integrated observability framework using Grafana, Prometheus, and AWS CloudWatch to track model health, data drift, and policy compliance.

- Cloud Cost Governance & Tagging Automation

Automated reporting and alerting for ML-heavy environments using Lambda, Cost Explorer APIs, and SNS notifications yielding 30% cost savings monthly.

- FinBankOps: Secure EKS-Based Kubernetes Platform for Fintech

Built a multi-region, production-grade EKS infrastructure for a fintech environment, integrating GitOps via ArgoCD, Istio-based service mesh, external secrets management, and observability tooling with Prometheus and Grafana. Ensured PCI-DSS readiness through infrastructure hardening and compliance audits.

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## CERTIFICATIONS

- AWS Certified DevOps Engineer – Professional (2025)
  - GitHub Advanced Security – (2025)
  - Kubernetes and Cloud Native Associate (2025)
  - AWS Certified Security – Specialty (2023)
  - AWS Certified Developer – Associate (2023)
  - AWS Certified Solutions Architect – Associate (2022)
  - Google Associate Cloud Engineer (2024)
  - Cisco Ethical Hacker (2024)
  - Cisco CyberOps Associate (2023)
  - Cisco Network Technician (2024)
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## EDUCATION

- M.Sc. Animal Biotechnology, Federal University of Agriculture, Abeokuta (2019)
- B.Tech. Animal Production and Health, Federal University of Technology, Akure (2012)
- Diploma, Computer Engineering, Datashield Computer Institute (2004)