

# Oluwatosin Jegede

CLOUD CONSULTANT | MLOPS ENGINEER | AWS ML INFRASTRUCTURE DELIVERY SPECIALIST

**Mobile:** +234-706-6401-667

**Email:** careers.tosinjegede@gmail.com

**LinkedIn** [linkedin.com/in/oluwatosinjegede/](https://www.linkedin.com/in/oluwatosinjegede/)

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

**Location:** Lagos, Nigeria (Relocating to the United Kingdom – August 2025)

## 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 across finance, healthcare, and nonprofit domains. 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. Currently based in Lagos, Nigeria, with relocation to the United Kingdom scheduled for August 2025.

## 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 (learning), LLM integration, VectorStore architecture (emerging skill)
- 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 for public health analytics, 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, achieving 100% pass rate on internal compliance 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

- Designed and deployed inference engines for ML models using SageMaker + Flask with autoscaling logic on ECS/EKS, enabling secure real-time predictions for logistics and insurance platforms.
- Delivered cross-cloud MLOps pipelines using Terraform, GitHub Actions, and Kubernetes to automate hyperparameter tuning, batch scoring, and retraining logic.
- Implemented pre-deployment scanning and runtime telemetry for ML infrastructure using AWS Config, Lambda, and CodeQL (security as code).

## 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: Multi-Region Kubernetes ML Deployment
  - Created secure, scalable ML architecture with multi-zone failover, GitOps-driven configuration, and endpoint routing via path-based ALB and ACM TLS.
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## CERTIFICATIONS

- AWS Certified DevOps Engineer – Professional (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)