

Emmanuel Olaoye

Dallas, TX | (615) 887-2108

emma.oyesola@gmail.com

SUMMARY

Senior DevOps Engineer with 7+ years of experience building secure, resilient, and automated infrastructure in AWS for fintech and SaaS platforms. Deep expertise in Infrastructure as Code (Terraform, CloudFormation), container orchestration (ECS, Docker), and CI/CD pipelines (ArgoCD, GitHub Actions). Proven success in migration projects, cross-account networking, and production readiness for regulated environments. Skilled in Python and Bash automation, IAM role configuration, and multi-account AWS strategies that drive scalability, stability, and compliance. Adept at collaborating with architects and developers to deliver modernized cloud ecosystems that support innovation in financial services.

EDUCATION

Master of Science, Engineering Technology – Middle Tennessee State University | 2014 – 2016

Bachelor of Science, Electrical Engineering – Obafemi Awolowo University, Nigeria | 2005 – 2010

PROFESSIONAL EXPERIENCE

Careforth

Senior Cloud Platform Engineer

OCT 2021 – PRESENT

- Architected AWS infrastructure (ECS, EKS, EC2, RDS, S3, VPC, CloudWatch) for high-availability financial and healthcare systems with 99.99% uptime.
- Implemented Infrastructure as Code using Terraform and CloudFormation, automating provisioning for over 10 AWS accounts and environments.
- Reconfigured ArgoCD-based CI/CD pipelines to support GitOps automation, cutting deployment times by 60% while improving reliability.
- Automated security group management and IAM role configurations to support cross-account resource sharing and least-privilege access controls.
- Designed migration runbooks and validation sequences for multi-account AWS application modernization, reducing downtime during cutovers.
- Developed Python and Bash automation scripts for RDS patching, CloudWatch alerting, and ECS task rollouts, saving 15+ engineer-hours per week.
- Collaborated with Cloud Architects to map application dependencies and redesign networking layers, improving inter-service communication across accounts.
- Delivered documentation and diagrams detailing infrastructure design, operational readiness, and post-migration validation strategies.
- Drove AWS cost optimization initiatives by rightsizing compute/storage, introducing S3 lifecycle policies, and enabling autoscaling. Lowered monthly AWS spend by 25% without performance trade-offs.

NTT DATA

DevOps Engineer

Jan '19 – Oct '21

- Supported AWS migration initiatives for enterprise fintech clients, implementing automation workflows using Terraform and Ansible.
- Built Dockerized microservices and deployed them on ECS, improving application scalability and recovery times.

- Enhanced production readiness by implementing CloudWatch dashboards, log aggregation (ELK), and predictive monitoring for latency and cost.
- Worked closely with developers to reconfigure proprietary CI/CD pipelines, integrating infrastructure validation steps and deployment gating.
- Implemented IAM policies, cross-account role assumption, and security group governance, ensuring compliance with internal cloud security standards.

ScienceSoft

DevOps Engineer

May 2016 - Dec 2018

- Automated cloud infrastructure provisioning with Terraform and CloudFormation for clients in banking and healthcare.
- Deployed containerized workloads using Docker Compose and ECS, simplifying release management and rollback strategies.
- Built Python-based Lambda functions for automation and data processing tasks across multi-environment AWS accounts.
- Supported on-prem-to-AWS migrations, validating dependencies, and configuring inter-account networking.
- Authored operations runbooks and troubleshooting guides, standardizing post-migration procedures.

KEY ACHIEVEMENTS

- **Fintech AWS Modernization:** Led AWS infrastructure modernization for multi-account SaaS platform—implemented Terraform-based IaC, automated CI/CD pipelines, and migrated workloads with zero downtime.
- **Cross-Account Networking & IAM:** Designed and secured multi-account architecture with AWS Organizations, Resource Access Manager (RAM), and IAM role assumption patterns.
- **CI/CD Pipeline Automation:** Refactored ArgoCD workflows to align with GitOps standards, introducing automated validation and rollback triggers.
- **Production Readiness Dashboards:** Created CloudWatch + Grafana observability stack for cross-region monitoring, enabling early anomaly detection and 50% faster incident resolution.
- **PgAnalyze Enterprise:** Deployed ECS-based collectors for RDS PostgreSQL monitoring across four environments, enabling query-level insights that reduced incident response time by 50%.

TECHNICAL SKILLS

- **Cloud Platforms:** AWS (ECS, EKS, EC2, RDS, Lambda, VPC, IAM, CloudWatch, Organizations, Route 53), Azure (exposure), GCP (exposure)
- **IaC & Config Management:** Terraform, CloudFormation, AWS CDK, Ansible, Helm
- **Containers:** Docker, ECS, Kubernetes (EKS)
- **CI/CD:** ArgoCD, GitHub Actions, GitLab CI, Jenkins
- **Automation & Scripting:** Python, Bash, PowerShell
- **Security & Compliance:** IAM, Cross-account roles, Security Groups, SOC 2, ISO 27001
- **Monitoring & Observability:** CloudWatch, Grafana, ELK, Datadog
- **Systems:** Linux (Ubuntu, CentOS), Windows Server

CERTIFICATIONS

- AWS Certified DevOps Engineer Professional
- AWS Certified Solution Architect Associate
- AWS Certified Developer Associate
- HashiCorp Terraform Associate
- Certified Kubernetes Administrator (CKA)
- Certified Kubernetes Application Developer (CKAD)

