

SAMUEL AKOSA ONYEJEKWE

CLOUD & DEVOPS ENGINEER

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EU work-authorised (Cypriot work permit)

PROFESSIONAL SUMMARY

Cloud & DevOps Engineer who designs, automates, and secures production-grade cloud infrastructure on AWS and Azure. Hands-on building containerised microservices on Kubernetes (EKS), provisioning infrastructure as code with Terraform, and delivering CI/CD pipelines with GitHub Actions and Jenkins. Practises DevSecOps end-to-end — shift-left security scanning, least-privilege IAM, and full observability with Prometheus and Grafana. Backed by 9+ years of engineering in high-reliability environments, bringing an automation mindset, operational rigour, and strong problem-solving to every deployment.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, S3, Lambda, EKS, ECR, API Gateway, RDS/Aurora, DynamoDB, CloudFront, ALB, Route 53, ACM, VPC, IAM, CloudWatch, Rekognition, EventBridge) · Microsoft Azure (App Service, Azure SQL, Blob Storage, Functions, VNet/NSG, Entra ID, RBAC)

Containers & Orchestration: Docker, Docker Compose, Kubernetes (EKS), Helm, KEDA, HPA, cert-manager

Infrastructure as Code: Terraform, AWS CloudFormation

CI/CD: GitHub Actions, Jenkins, Git & GitHub workflows (branching, PRs, code review)

DevSecOps & Security: Trivy, Gitleaks, least-privilege IAM, IRSA, IMDSv2, Kubernetes NetworkPolicies, mTLS

Observability: Prometheus, Grafana, CloudWatch

Programming & Scripting: Python, Bash/Linux, SQL

Messaging & Data: RabbitMQ, Redis, PostgreSQL, MongoDB, MySQL/Aurora, DynamoDB

KEY PROJECTS

Video Processing Microservices Platform — DevSecOps on AWS EKS github.com/samuelakosaonyejekwe/video-processing-microservices

- Architected a production-grade, event-driven microservices platform (Gateway, Auth, Converter, Notification) deployed on Kubernetes 1.29 (AWS EKS), fully provisioned with Terraform 1.8 IaC.
- Built 20+ GitHub Actions workflows and a Jenkins pipeline automating testing, container builds, and rolling deployments to ECR/EKS with immutable image tags.
- Embedded shift-left security gates — Gitleaks secret scanning and Trivy vulnerability scanning across filesystem, images, and IaC; hardened pods with read-only root filesystems, non-root execution, default-deny NetworkPolicies, and mTLS via cert-manager.
- Implemented event-driven autoscaling with KEDA (RabbitMQ queue depth) and HPA, idempotent processing with Redis deduplication, and dead-letter/retry queues for resilience.
- Delivered full observability with Prometheus metrics and a 35-panel Grafana dashboard; secured workloads with IRSA pod-level IAM, IMDSv2, and least-privilege policies.

Stack: Python 3.12/FastAPI · React · Docker · Kubernetes · Terraform · Helm · RabbitMQ · PostgreSQL · MongoDB · Redis · S3 · ALB · Route 53/ACM

CityMart Online — AWS Three-Tier Highly Available Architecture github.com/samuelakosaonyejekwe/cloudboosta-sam-project

- Designed and deployed a fault-tolerant 3-tier web application across two Availability Zones (eu-west-2) with a custom VPC, public/private subnets, NAT/Internet gateways, and Auto Scaling Groups — eliminating single points of failure.
- Separated web (Nginx), application (Apache/PHP), and data (Aurora/RDS Multi-AZ) tiers behind public and internal Application Load Balancers with strict security-group chaining.
- Automated consistent deployments by distributing application code from S3 to ephemeral EC2 instances; secured traffic end-to-end with Route 53 DNS and ACM TLS.

Serverless Facial Recognition Platform (AWS) github.com/samuelakosaonyejekwe/facial-recognition-app-samuel

- Built a fully serverless, event-driven identity-verification system: React/Vite frontend → API Gateway → Lambda → Amazon Rekognition → DynamoDB → S3, deployed via CloudFormation (eu-west-1).

- Implemented S3-triggered face indexing for registration and API-driven face comparison with similarity scoring for authentication, enforced with least-privilege IAM and CloudWatch logging.
- Achieved automatic scaling, high availability, and a cost-efficient pay-per-use model with zero servers to manage.

Additional cloud projects: Serverless EC2 lifecycle automation (Lambda + EventBridge cron) for cost optimisation · S3-triggered image-processing pipeline · Jenkins CI/CD on EC2 · Azure secure HR portal (Entra ID / RBAC / NSG) · Azure SQL with serverless Functions.

PROFESSIONAL EXPERIENCE

Engineering Consultant / Training Coordinator | Subsener Ltd · Petrocarbon Engineers Ltd, Lagos, Nigeria *Apr 2020 – Present*

- Design and deliver technical training and onboarding programmes for engineers at major clients (Shell, Saipem), producing reusable course material and process documentation.
- Coordinate cross-functional delivery and knowledge transfer on specialised engineering software, earning programme authentication by IMarEST.

Subsea Structural Engineer | International Energy Services Ltd (IESL), Lagos, Nigeria

Aug 2019 – Mar 2020

- Delivered rigorous analysis and detailed technical documentation; improved reliability by 20% and cut project review times by 25% through repeatable, well-documented processes.

Asset Integrity Engineer | Fadfae Engineering / Innospection Ltd, Lagos, Nigeria

Oct 2017 – Oct 2018

- Planned and ran inspection projects with Gantt scheduling, backlog management, and risk assessment — delivering ahead of schedule (15% time reduction) with zero safety incidents.

Earlier: Mechanical/Project Engineer, Petrohob Ltd · Structural Engineer, Petrocarbon Engineers Ltd (2015–2019) — FEA/CFD simulation, automation of engineering workflows, and multidisciplinary project coordination in high-reliability offshore environments.

EDUCATION & CERTIFICATIONS

- **Professional Diploma, Cloud Computing & DevOps** — Distinction · Cloudboosta Academy · 2026
- **MSc, Offshore Engineering** — Distinction · University of Port Harcourt, Nigeria · 2014
- **BEng, Mechanical Engineering** — Second Class Upper (2:1) · Federal University of Technology, Owerri · 2010

Core curriculum: AWS · Microsoft Azure · Terraform · Kubernetes · Docker · CI/CD · Linux · Python automation.

Languages: English (native) · Greek (basic).