






Franklyn Mbelu

Cloud Engineer | DevOps Specialist | AWS Certified Professional

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Professional Summary

Results-driven Cloud Engineer with over four years of experience in AWS cloud architecture, DevOps automation, and infrastructure optimization. AWS triple-certified professional with expertise in designing, deploying, and managing highly available, secure, and cost-efficient cloud solutions. Proven record in enhancing system performance, implementing security best practices, and reducing operational costs. Enthusiastic about automation, CI/CD, and infrastructure as code.

Professional Experience

Cloud Administrator

Phoenix Converge Solutions Limited, Lagos, Nigeria

January 2024 - February 2025

- Implemented AWS IAM security policies and best practices, reducing security incidents by 25%.
- Optimized cloud infrastructure costs by 30% through AWS Cost Explorer, auto scaling, and Reserved Instances.
- Designed and deployed enterprise-grade disaster recovery solutions using AWS Backup and S3, ensuring 99.9% data availability.
- Managed over ten cloud migration projects with zero data loss and minimal downtime.
- Architected and maintained high-availability infrastructure solutions using AWS services, maintaining a 99.99% uptime SLA.

Cloud Architect

Tranter IT, Lagos, Nigeria

November 2020 - June 2023

- Designed and deployed cloud solutions for 15+ enterprise clients using AWS EC2, S3, RDS, and IAM.

- Enhanced system performance by 20% through continuous monitoring and optimization.
- Delivered 10+ technical proposals that contributed to successful client acquisitions.
- Conducted cloud security audits ensuring regulatory compliance.
- Monitored infrastructure with AWS CloudWatch, Prometheus, and ELK Stack.

IT Personnel (Helpdesk)

Tranter IT, Lagos, Nigeria

July 2017 - March 2020

- Provided technical support and troubleshooting for end-users, ensuring smooth IT operations and rapid issue resolution across the organization.
- Resolved over 500+ hardware, software, and network issues, maintaining high user satisfaction and minimal downtime.
- Trained staff in IT best practices and supported onboarding of new employees with system setup and access management.
- Provided remote and onsite support for software installations, updates, and troubleshooting across multiple departments.
- Maintained and updated IT asset inventory, ensuring accurate tracking and timely replacement of equipment.
- Assisted in implementing security protocols, including antivirus deployment and user access controls, to safeguard organizational data.

Technical Skills

- **Cloud Platforms:** Amazon Web Services (AWS), Azure
- **AWS Services:** EC2, S3, RDS, Lambda, VPC, CloudFormation, ECS, EKS, Route 53, CloudWatch, IAM, KMS, Amazon Sage maker
- **Azure Services:** Azure DevOps
- **Infrastructure as Code:** Terraform, CloudFormation, Ansible, Puppet
- **Containers & Orchestration:** Docker, Kubernetes, Helm, Amazon ECS/EKS
- **CI/CD:** Jenkins, GitHub Actions, AWS CodePipeline, ArgoCD, GitOps
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack, AWS CloudWatch
- **Scripting & Automation:** Python, Bash, YAML
- **Version Control:** Git, GitHub, GitLab
- **Security:** AWS IAM, Security Groups, NACLs, AWS Shield, AWS security Hub

- **Operating Systems:** Windows, Linux

Soft Skills

- Problem-solving
- Collaboration with cross-functional teams
- Clear technical communication
- Proactive learning
- Customer focus

Certifications

- AWS Certified Solutions Architect - Associate (Valid: 09/2023 - 09/2026)
- AWS Certified Developer - Associate (Valid: 12/2023 - 12/2026)
- AWS Certified SysOps Administrator - Associate (Valid: 05/2024 - 05/2027)

Projects

Automated WordPress Deployment on AWS using Terraform

- Deployed scalable WordPress infrastructure on AWS using Terraform with 9 modular components (VPC, ALB, ASG, RDS, EFS), implementing S3/DynamoDB state management for consistent deployments
- Automated EC2 provisioning with user data scripts and integrated AWS Systems Manager for secure credential management, achieving 99.9% uptime through multi-AZ architecture
- Configured auto-scaling policies with CloudWatch alarms, validated scaling from 2-6 instances under load testing, and implemented comprehensive security controls with IAM roles and VPC isolation
- Created detailed documentation and deployment procedures, enabling repeatable infrastructure provisioning across environments with zero-downtime deployments

Full-Stack E-commerce Platform with Containerized Deployment on AWS ECS

- Developed full-stack pet accessories e-commerce application using Node.js backend and React.js frontend with RESTful API architecture, supporting user authentication, product catalog, and order management
- Containerized application using Docker multi-stage builds and deployed on AWS ECS Fargate with auto-scaling policies, optimizing costs by 30% while maintaining 99.9% availability

- Implemented comprehensive CI/CD pipeline using GitHub Actions with zero-downtime blue-green deployments and integrated security scanning, reducing deployment cycles by 40%
- Configured Application Load Balancer with health checks and SSL termination, integrated MongoDB Atlas with connection pooling achieving sub-200ms API response times

Cloud-Native E-commerce Platform with Microservices Architecture

- Built scalable e-commerce microservices platform on AWS EKS serving 5,000+ users with 99.9% uptime using FastAPI, React, and MongoDB with container orchestration
- Automated CI/CD pipelines utilizing GitHub Actions, reducing deployment time by 50% while maintaining zero downtime through blue-green deployment strategies
- Orchestrated infrastructure with Terraform managing 15+ AWS services and 8 containerized microservices with auto-scaling policies achieving 30% cost optimization
- Implemented comprehensive monitoring stack using Prometheus, Grafana, and EFK (Elasticsearch, Fluentd, Kibana) with custom dashboards and alerting mechanisms

AI-Powered Text-to-Image Generation Microservice

- Built AI-powered text-to-image microservice processing 1,000+ daily requests with 95% success rate and sub-10 second response times using Amazon Bedrock Stable Diffusion XL
- Deployed containerized application on AWS App Runner with auto-scaling capabilities, achieving 99.5% uptime and 25% cost reduction through intelligent caching strategies
- Provisioned infrastructure using Terraform with modular design managing App Runner, S3, IAM roles, and VPC configurations for production deployment
- Automated CI/CD pipeline with integrated security scanning and zero-downtime deployments, resulting in 60% reduction in release cycle time

Education

Bachelor of Engineering (B.Eng.), Electronics and Computer Engineering

Nnamdi Azikiwe University, Awka, Nigeria.

Languages

- English: Native
- French: Beginner (A1)