

OBED CHIEMELA UWAKWE

Entry-Level DevOps Engineer or Software Engineer

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SUMMARY

Entry-level Software and DevOps Engineer with hands-on experience across AWS, Terraform, Kubernetes, and GitOps (ArgoCD/Helm). Skilled in building full-stack applications, deploying and securing cloud infrastructure, and independently identifying and fixing a real security vulnerability before it reached production. Looking to bring that same curiosity, consistency, and ownership to a high-performing engineering team.

TECHNICAL SKILLS

- **Cloud & Infrastructure:** AWS (VPC, ECS Fargate, EKS, RDS PostgreSQL, Lambda, SQS, ALB, Secrets Manager, KMS, CloudWatch, Config, CloudTrail, WAF), Terraform, Helm, Docker, Kubernetes.
- **CI/CD & GitOps:** GitHub Actions, ArgoCD, AWS CodePipeline / CodeBuild / CodeCommit, Atlantis, OIDC federation, app-of-apps pattern.
- **Languages:** Python, TypeScript, JavaScript, Bash, SQL, HCL, YAML.
- **Frameworks & APIs:** Node.js, Express, React, React Native (Expo), three.js, REST API design, JWT auth, prom-client.
- **Security & Compliance:** IAM least-privilege, AWS WAF, Checkov, Trivy, npm audit, AWS Config rules, Secrets Manager, IDOR / PII audit, HIPAA controls.
- **Data, Observability & Tooling:** PostgreSQL, Redis, Prometheus, Grafana, CloudWatch alarms & metrics, CloudTrail, Git, Linux, Vitest / Jest.
- **Deployment & Platforms:** Render, Vercel, Supabase, Upstash, Expo EAS, AWS ECS / EKS Fargate, Nginx.
- **Testing:** Vitest, Jest, React Testing Library, React Native Testing Library, MSW, Playwright, TDD.
- **AI Tools & Agentic Development:** Claude Code (agentic development, subagent-driven workflows, MCP integrations), Google Stitch, Figma, LottieFiles Creator.

SECURITY & CLOUD PROJECTS

Digital Bank Microservices Platform | Personal Project

In Progress

React (Vite) · React Native (Expo) · Node.js/Express microservices · Supabase · Upstash Redis · Terraform · GitHub Actions · Vercel

- Architected a full-stack personal banking platform as four independent microservices (auth, account, transfer, notification) behind a React web app and a React Native/Expo mobile app, rather than one monolithic service
- Migrated the entire stack to a free-tier cloud footprint (Supabase, Upstash Redis, Vercel) after the original AWS account's free-tier credits expired mid-build, fixing real deploy-time issues along the way (a branch-tracking misconfiguration, a TLS cert-trust gap, and a missing secret) and verifying the migration end to end in production
- Put the codebase through an adversarial security review before shipping, catching and fixing a real IDOR vulnerability that would have exposed customer PII, as a standing part of the workflow rather than an afterthought
- Built the mobile app's registration and onboarding flow in React Native/Expo, debugging real Android device networking issues to get it running outside the simulator

Car\$ync — Fintech Marketplace: Security Audit & Remediation | Personal Project

Complete

React · Node.js/Express · PostgreSQL · AWS (ECS, S3/CloudFront) · Terraform

- Audited a live full-stack application and discovered a PII/IDOR vulnerability exposing every customer's name, email, loan amount, and fraud-risk score to unauthenticated callers, plus a sequential-ID enumeration path to the same data
- Designed and shipped a fail-closed, shared-secret admin authentication pattern (Secrets Manager-backed) to separate public/masked views from full financial and PII detail, without disrupting the existing public API
- Closed a second, unrelated unauthenticated endpoint using the same pattern, and fixed a .gitignore misconfiguration that had silently blocked environment files from ever being committed
- Diagnosed and recovered from a real Terraform state-drift incident (a killed apply left a live EKS cluster untracked) via terraform import and an authorized state patch — zero downtime, zero resource loss

- Building an observability practice environment (EKS + ArgoCD + Prometheus/Grafana) with custom prom-client metrics that separate application-level performance issues from Kubernetes resource-limit issues

DevSecOps Pipeline — Security-First CI/CD for a Fintech Payment API | Personal Project *Complete*

GitHub Actions · Checkov · Trivy · npm audit · Node.js

- Built a CI/CD pipeline enforcing automated security gates on every push: Checkov for IaC misconfiguration scanning, Trivy for container CVE scanning, and npm audit for dependency scanning
- Implemented a rules-based fraud-detection and risk-scoring engine for a payment API, auto-blocking transactions scoring 70+ on risk indicators (amount, round numbers, self-transfers, foreign currency)

HIPAA-Compliant Healthcare Platform | Personal Project *Complete*

AWS KMS · WAF · Secrets Manager · Node.js

- Delivered a Patient Records API meeting all 5 core HIPAA safeguards: KMS AES-256 encryption at rest, a WAF with 4 managed rule groups (XSS, SQL injection, Log4Shell, rate limiting), Secrets Manager credential management, and full PHI audit logging on every access endpoint
- Achieved 100% compliance across all mapped HIPAA rules

CloudOps Platform & Multi-Tier GitOps | Personal Project *Complete / In Progress*

Terraform · AWS (VPC, ECS, EKS, RDS) · ArgoCD · Helm

- Designed and deployed multi-AZ AWS infrastructure via Terraform (VPC, ECS Fargate, EKS Fargate, RDS PostgreSQL, Secrets Manager, KMS) with remote state management
- Implemented GitOps delivery on EKS using ArgoCD with Helm-bootstrapped charts, achieving automatic drift detection and self-healing
- Enforced a zero-secrets-in-code policy (Secrets Manager, KMS, least-privilege IAM task roles) and configured AWS Config compliance rules to a 100% compliant posture
- Engineered ~\$0/month running cost through automated teardown of NAT Gateways and EKS clusters after each work session

EXPERIENCE

School Teacher (NYSC) | Success Comprehensive High School, Ondo State *Jan – Dec 2025*

- Managed lesson planning, assessments, and academic records with consistent accuracy, strengthening documentation and reporting discipline directly transferable to technical and security operations
- Coordinated classroom activities and adapted delivery to diverse audiences, building structured communication and problem-solving skills

Analytical Chemist / Industrial Trainee | SAAG Chemical (Nig.) Limited, Lagos State *Apr – Sep 2023*

- Maintained accurate records across regulated laboratory operations, adhering strictly to safety protocols and data-integrity standards
- Analyzed and organized operational data to reduce reporting errors — foundational habits now applied to security documentation and compliance work

CERTIFICATIONS

- Google Cybersecurity Professional Certificate, Google (via Coursera) — Mar 25, 2026
- Certificate of National Service (NYSC), National Youth Service Corps — Dec 2025
- Industrial Training Completion Certificate (ITCC), SAAG Chemical (Nig.) Limited — Sep 2023

EDUCATION

BSc. Biochemistry — Augustine University, Ilara-Epe, Lagos State, Nigeria

Second Class Honours, Lower Division (2:2)