

OBED CHIEMELA UWAKWE

Full-Stack Software Engineer

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SUMMARY

Full-stack engineer who builds and ships complete systems: a React Native banking app on four Node.js services, backed by PostgreSQL and Redis, covered by 900+ automated tests and deployed through CI that blocks on failing tests and security scans. Works across the stack from TypeScript UI to Terraform on AWS, and runs an adversarial security review before each release, one of which caught an IDOR that would have exposed customer records. Career changer from biochemistry, building software full time since February 2026.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL, Bash
Frontend & Mobile	React, React Native (Expo), Next.js, Tailwind CSS, three.js
Backend & Data	Node.js, Express, REST API design, JWT auth, PostgreSQL (Supabase), Redis (Upstash), Paystack API
Testing	Jest, Vitest, React Testing Library, React Native Testing Library, MSW, Playwright, TDD
Cloud & DevOps	AWS (VPC, ECS Fargate, EKS, RDS, Lambda, SQS, KMS, Secrets Manager, CloudWatch), Terraform, Docker, Kubernetes, Helm, Argo CD, GitHub Actions, Render, Vercel
Security & Tooling	Authorization review (IDOR), IAM least privilege, Gitleaks, Semgrep, Trivy, Checkov, npm audit, Prometheus, Grafana, Git, Linux, Claude Code (agentic workflows)

PROJECTS

Digital Bank: Full-Stack Banking Platform

obedbuilds.dev | In progress

React Native (Expo) · TypeScript · Node.js/Express · PostgreSQL (Supabase) · Redis (Upstash) · Render · GitHub Actions

- Built four Node.js services (auth, account, transfer, notification) behind a React Native app, with JWT access and refresh tokens, per-route rate limiting and correlation IDs across services.
- Made every balance change idempotent (keyed insert against a partial unique index), so a retried or concurrent request never moves money twice; a failed transfer credit reverses its debit automatically.
- Integrated Paystack wallet funding (test mode) through hosted checkout, credited only by an HMAC-verified webhook.
- Moved email off the request path with a Redis queue and a notification consumer sending through Resend, including password reset by emailed one-time code.
- Wrote 900+ automated tests (Jest, RNTL, integration suites against a real Postgres); per-service CI runs security scans and tests, and Render deploys only when they pass.
- Caught an IDOR that would have exposed customer records in a pre-release adversarial review, and recorded its root cause and fix in the project's security log.
- Migrated from AWS (ECS Fargate, Terraform) to a free-tier stack when cloud credits ran out, bringing the resting cost to \$0 and verifying it end to end in production.

Car\$ync: Fintech Marketplace Security Audit

GitHub | Complete

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

- Audited a live fintech marketplace and found an unauthenticated endpoint exposing every customer's name, email, loan amount and fraud-risk score, plus a sequential-ID path to enumerate them.
- Designed a fail-closed admin check backed by Secrets Manager: masked data by default, full PII for admins only, with no breaking change for existing API callers.
- Recovered a Terraform state-drift incident where a killed apply left a live EKS cluster untracked, using terraform import and a state patch with no resource loss.

DevSecOps Pipeline for a Payment API

GitHub | Complete

GitHub Actions · Gitleaks · Semgrep · Trivy · Checkov · npm audit · Node.js · AWS ECS

- Built a pipeline where secret, SAST, dependency, container-image and npm checks fail the build and a failed gate blocks the ECS deploy, packaging the core gate as a reusable workflow.
- Wrote a rules-based fraud engine that scores payment requests (high value, round amounts, self-transfers, foreign currency) into approve, review or block recommendations.

CloudOps: Reference AWS Platform

GitHub | Complete

Terraform · AWS (VPC, RDS, ECS Fargate, EKS) · eksctl · Argo CD · Helm · Prometheus · Grafana

- Provisioned a multi-AZ VPC, RDS PostgreSQL and ECS Fargate with Terraform (dev and prod environments, remote state), plus an EKS Fargate cluster from eksctl.
- Ran GitOps delivery with Argo CD (automated sync, prune, self-heal) from Helm charts, and monitored with Prometheus and Grafana on EKS and CloudWatch alarms on ECS.
- Kept secrets out of code with Secrets Manager, KMS and least-privilege IAM, and scripted NAT and cluster teardown so the platform rests at \$0.

EXPERIENCE

School Teacher (National Service) | Success Comprehensive High School, Ondo State

Jan 2025 to Dec 2025

- Planned and delivered lessons and assessments for mixed-ability classes, explaining technical material to non-specialist audiences.
- Kept academic records and reports accurate and on schedule across the school year.

Analytical Chemist (Industrial Trainee) | SAAG Chemical (Nig.) Limited, Lagos

Apr 2023 to Sep 2023

- Ran analytical tests in a regulated laboratory under strict safety and data-integrity standards.
- Organised test data and reports for the quality team, reducing reporting errors.

CERTIFICATIONS

Google Cybersecurity Professional Certificate, Google (Coursera) | Mar 2026

EDUCATION

BSc Biochemistry | Augustine University, Ilara-Epe, Lagos