Nwogu Michael Daberechi

Software Engineer • Backend • Cloud • DevOps

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Profile

Software Engineer with 4+ years of experience building scalable backend systems and cloud infrastructure. I design and operate production platforms using AWS, Terraform, Docker, Kubernetes, and CI/CD, with a focus on distributed systems, automation, observability, and reliability.

Skills

Software Development Lifecycle Knowledge

Containers: Docker, Kubernetes

CI/CD: GitHub Actions

Monitoring: Grafana, signoz, OpenTelemetry, Sentry

Web Servers: Nginx, Apache

OS: Linux

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firestore, BigQuery

Cloud: AWS (EC2, S3, SES),Digital Ocean, Linode

IaC: Terraform

Configuration tools: Ansible

Scripting: Bash

Messaging: RabbitMQ, BullMQ, Redis stream

Languages: Typescript, PHP, Python

Professional Experience

2025 – Present
Lagos, Nigeria

Software Engineer (Backend Heavy)
Bankit Microfinance Bank

- Maintain and troubleshoot a distributed microservices platform powering financial services and customer transactions.
- Investigate production incidents by tracing requests across services, analyzing logs, SQL queries, and application metrics to identify root causes.
- Resolve data inconsistencies and optimize database queries to improve application performance and data integrity.
- Build internal tools and automation scripts that simplify operational workflows and reduce manual support effort.
- Collaborate with DevOps and product teams to improve service reliability, deployment quality, and production observability.
- Support cloud-hosted services and third-party integrations, ensuring high availability and operational stability.

2024 – 2025

DevOps Engineer (Contract-Based)
Vine Mobility

- Designed and deployed production infrastructure across AWS and Linode, provisioning Linux servers, networking, and application services.
- Automated application deployments using Docker and CI/CD pipelines, reducing manual release effort and improving deployment consistency.
- Configured production infrastructure with Nginx, SSL/TLS, and reverse proxy routing to deliver secure, highly available services.
- Led infrastructure migration between cloud providers with minimal downtime while maintaining service continuity.
- Optimized infrastructure performance and cloud resource utilization, improving deployment reliability and reducing operational costs.

2023 – 2024
Lagos, Nigeria

Backend Developer
CoaveTech

- Technology: Nodejs, express, typescript, AWS
- Spearheaded backend development of Coavetech's employee and client management system, ensuring scalability and reliability for daily operations.

- Implemented RBAC (Role-Based Access Control) to manage permissions and streamline access across all employees and instructors.
- Designed and integrated attendance tracking for instructors, enabling accurate documentation and accountability.
- Developed payment system integration to allow clients to pay for services seamlessly through the platform.
- Built modules for managing cohorts, lessons, and students, supporting the company's education and training workflows.
- Integrated AWS SES for transactional and notification emails.
- Implemented Cloudinary integration for secure and efficient media management.
- Optimized backend APIs using Node.js/Express.js, ensuring high performance and smooth communication between services.
- Collaborated with cross-functional teams to align backend features with business requirements and frontend needs.
- **Ensured best practices** in database design, API security, and system maintainability.

Organizations

2021 – 2023
Virtual(Remote)

Coder's den
Javascript mentor

- Volunteered as a mentor at Coder's Den, a community supporting newcomers to web development and technology.
- Assisted individuals in transitioning into the tech space by providing guidance and resources.
- Helped mentees unlock their potential and gain confidence in their respective web development fields.
- Facilitated learning and skill development to better prepare mentees for success in the tech industry.

Education

2019/03 – 2023/03
Lagos, Nigeria

B.Sc. Computer science
National Open Universirty of Nigeria

Projects

2026/01 – 2026/03

Infrastructure Project – Multi-Service Deployment (Linode)

- Provisioned and managed cloud infrastructure on Linode using **Terraform (Infrastructure as Code)**, enabling reproducible and version-controlled environments
- Designed and deployed a **containerized multi-service architecture** using Docker Compose, hosting both REST and WebSocket-based services
- Configured **Nginx reverse proxy** to route traffic across multiple services under a unified domain
- Enabled and optimized **WebSocket support through Nginx**, ensuring stable real-time communication for OCPP-based services
- Implemented **centralized logging** by streaming and persisting container logs with timestamps for debugging and traceability
- Managed service lifecycle and orchestration using Docker Compose with restart policies to ensure system reliability
- Secured services with HTTPS configuration and optimized request handling for both HTTP and persistent connections
- Performed infrastructure migration from AWS to Linode with minimal downtime, ensuring service continuity

Deployed Kubernetes Cluster

- Wrote and deployed a Dockerfile for a python project
- initiated kubernetes cluster.
- applied some kubernetes cluster in deployment and services yaml configuration files
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2024/11 – 2024/11

Nest Finder API Service

- Engineered a robust backend API service using Node.js (Express.js) with a comprehensive technological stack including MySQL, Redis, and Nginx, demonstrating advanced backend architecture skills
- Implemented enterprise-grade security features, including Passport.js authentication, express-rate-limit protection, and comprehensive API documentation via Swagger to ensure robust and secure API development
- Containerized the entire backend application using Docker, creating distinct configurations for development and production environments with a sophisticated Docker Compose setup managing MySQL, Redis, and Nginx services
- Developed a modular backend infrastructure that supports seamless service integration, featuring GUI interfaces for database and cache management to enhance operational visibility and developer productivity
- Exhibited infrastructure as code (IaC) principles through meticulous service orchestration, ensuring consistent, reproducible, and scalable backend deployment across multiple environments

AWS EC2 cluster configuration

- Set up a CI/CD pipeline with GitHub Actions from GitHub to a Minikube cluster running on an EC2 instance deployed using Terraform.

2026/03

AgentPay

Autonomous Escrow & Settlement System

- Designed an **event-driven escrow system** that processes delivery and milestone events to trigger automated payment settlements
- Built a **6-stage transaction pipeline** (webhook ingestion → queue processing → fraud analysis → decision engine → settlement → logging)
- Implemented **fraud detection engine** using multi-signal validation (rate limiting, blacklist checks, amount validation), producing risk scores for transactions
- Developed an **automated decision engine** (PAY / WAIT / REJECT) with retry scheduling and failure handling
- Ensured system safety using **idempotent smart contract interactions** and concurrency control to prevent double-spending
- Built asynchronous processing pipeline using **Redis queues and worker system**, ensuring reliable event handling
- Logged all transaction decisions and metadata for **auditability and traceability**
- Integrated on-chain settlement functions for escrow release, dispute handling, and fund freezing
- Integrated **AI-assisted decision layer** to evaluate transaction risk and recommend settlement actions

Certificates

- Kubernetes cloud native associates certification
- kodecamp Nodejs certification
- google AI essentials
- DevOps Certificate Of completion
- coursera foundation of cybersecurity
- completion to introduction to cybersecurity

Interests

- Music/Piano
- Chess
- Networking Events

Selected Engineering Achievements

- Reduced AWS infrastructure costs by over **80%** through infrastructure redesign and optimization.
- Built production CI/CD pipelines that automate deployments across multiple microservices.
- Designed Infrastructure as Code solutions using Terraform for repeatable cloud provisioning.
- Built secure backend systems supporting payment processing and financial operations.
- Implemented observability with centralized logging, metrics and monitoring.
- Developed event-driven architectures using RabbitMQ and Redis queues.
- Debugged production issues in distributed microservices environments.
- Designed scalable REST APIs and contract-first integrations.