

# AYODELE DAVID AYOOLUWA

Backend & DevOps Engineer

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## EDUCATION

### Bachelor of Science in Computer Science

Covenant University, Ota, Nigeria | Expected Graduation: May 2027

GPA: 4.83/5.0

**Relevant Coursework:** Data Structures & Algorithms, Distributed Systems, Software Engineering, Artificial Intelligence, Cloud Computing, Database Management Systems

## WORK EXPERIENCE

### Founding Backend Engineer

[DevSpace](#), Lagos, Nigeria

August 2025 - Present

- Engineered AI-powered career guidance platform serving 200+ users with ML-driven assessments (Random Forest classifier, 87% accuracy)
- Architected production REST API with FastAPI/PostgreSQL, integrating Supabase auth, WebSocket chat, and YouTube API for curated learning paths
- Deployed scalable infrastructure on Railway with CI/CD automation, Prometheus/Grafana monitoring, achieving 99.7% uptime

### DevOps Engineer Intern

[HNG Internship](#), Remote

September 2024 - March 2025

- Automated CI/CD pipelines using GitHub Actions, reducing deployment time by 40% and enabling consistent deployments across 5+ microservices
- Deployed and managed Dockerized applications on AWS EC2 with Terraform IaC, improving deployment consistency and implementing auto-scaling configurations for better resource utilization
- Configured monitoring stack with Prometheus, Grafana, and CloudWatch, implementing security best practices including IAM policies, secrets management, and VPC network configurations

## PROJECTS

### SchemaSage – Enterprise API Schema & Database Management Platform

**Full-Stack Engineer** | [Live Demo](#) | [GitHub](#)

- Engineered 8-microservice AI-powered platform processing 500+ schema conversions with 92% accuracy, reducing database design time by 65% through automated code generation across 9+ formats (SQL, TypeScript, Python, GraphQL)
- Architected event-driven pipeline with RabbitMQ for 500+ concurrent schema transformations and multi-cloud deployment (AWS, Azure, GCP)
- Implemented secure authentication microservice using Java Spring Boot with JWT-based authorization and role-based access control

**Tech Stack:** Python, FastAPI, Java Spring Boot, PostgreSQL, Redis, RabbitMQ, Docker, OpenAI/Gemini APIs, OAuth 2.0, WebSockets, Next.js

### FinTech Transaction Reconciliation Engine — Automated Payment Matching & Webhook Recovery

**Full-Stack Engineer** | [Live Demo](#) | [GitHub](#)

- Built three-way reconciliation engine matching 5 payment providers (Paystack, Flutterwave, Korapay, Quidax, Fincra), bank settlements, and internal ledgers with 95% automated detection accuracy, reducing manual verification by 70%
- Developed rules-based confidence scoring and webhook retry layer (RabbitMQ), achieving 80%+ recovery and preventing inconsistent transaction states
- Delivered React dashboard with real-time dispute triage, audit logs, and CSV bank statement ingestion (GTBank, Access, Zenith, FirstBank auto-detection)

**Tech Stack:** Java Spring Boot, PostgreSQL, RabbitMQ, React, TypeScript, JWT, Docker, Flyway, Heroku, Supabase

### SoliVault – Smart Contract Security Platform with Production DevOps

**Full-Stack Engineer** | [Live Demo](#) | [GitHub](#)

- Engineered blockchain security platform scanning 50+ smart contracts, detecting 20+ vulnerabilities with 85% AI accuracy for OWASP compliance, and implementing automated code optimization reducing gas costs by 28%
- Deployed AWS infrastructure with Terraform IaC (VPC, RDS, S3, EC2) and CI/CD pipeline, reducing deployment time from 4 hours to 12 minutes

**Tech Stack:** Docker, Kubernetes, GitHub Actions, AWS (VPC, EC2, RDS, S3), Terraform, Python, Solidity, ML Security Analysis

## HACKATHON EXPERIENCE

### Hackathon Participant

[Interswitch Hackathon](#), Lagos, Nigeria

November 2025

- Collaborated with 5 developers to build OpenRide ridesharing platform in 48 hours using Python/FastAPI
- Implemented Interswitch payment integration, blockchain verification, and RESTful APIs with PostgreSQL database

## SKILLS

- Languages:** Python, SQL, JavaScript, TypeScript, Java, Bash/Shell Scripting
- Backend & APIs:** FastAPI, Flask, Java Spring Boot, REST APIs, GraphQL, Microservices Architecture, API Gateway, Message Queues (RabbitMQ), Event-Driven Architecture, WebSockets
- DevOps & Cloud:** Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines, AWS (EC2, RDS, S3, VPC, CloudWatch), Terraform (IaC), Linux Administration, Nginx, Load Balancing, Blue-Green Deployment
- Databases:** PostgreSQL, MongoDB, Redis, Database Design & Normalization, Query Optimization, Multi-Tenancy, Row-Level Security
- Security & Monitoring:** OAuth 2.0, JWT, IAM Policies, Secrets Management, Prometheus, Grafana, CloudWatch, Application Security
- Tools & Practices:** Git, Agile/Scrum, PyTest, Unit Testing, Code Review, Supabase, RESTful Design Patterns, Prompt Engineering

## CERTIFICATIONS

- Decoding DevOps – From Basics to Advanced Projects with AI | Udemy | May 2025 | 62 hours