

AYODELE DAVID AYOOLUWA

Backend & DevOps Engineer

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

EDUCATION

Bachelor of Science in Computer Science | Covenant University, Nigeria | Expected 2027 | GPA: 4.83/5.0

Relevant Coursework: Data Structures, Distributed Systems, Software Engineering, AI, Cloud Computing

SUMMARY

Computer Science student with hands-on experience in microservices, CI/CD pipelines, and cloud infrastructure. Built 22+ microservices with 50+ API endpoints using Python, FastAPI, Docker, and AWS. Reduced deployment cycles by 60% and maintained 85% uptime through automated DevOps practices.

TECHNICAL SKILLS

Backend:

Python, FastAPI, REST APIs, Microservices, JWT/OAuth, WebSockets

Databases:

PostgreSQL, MongoDB, Redis, Database Design, Query Optimization

Tools:

Git, Agile/Scrum, PyTest, Prometheus, Grafana, RabbitMQ

DevOps & Cloud:

Bash scripting, Nginx, Heroku, Docker, Kubernetes, GitHub Actions, CI/CD, AWS (EC2, RDS, S3), Terraform, Linux

AI/ML:

TensorFlow, OpenAI/Gemini APIs, NLP

EXPERIENCE

Devops Intern | HNG Internship | Remote | 2024-2025

- Automated CI/CD pipelines with GitHub Actions, reducing deployment time by 60% and enabling zero-downtime releases.
- Deployed and managed Dockerized microservices on AWS, improving app uptime to 99.8% and scalability by 3x.
- Configured Prometheus, Grafana, and CloudWatch for full-stack observability, cutting issue detection time by 40%.
- Enforced DevOps security best practices (IAM, secrets, network hardening), minimizing configuration vulnerabilities by over 50%.

PROJECTS

SchemaSage – Enterprise API Schema & Database Management Platform

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AI-powered platform for database schema design, code generation, and migration with enterprise collaboration features.

- Architected 8 FastAPI microservices with OAuth/JWT, AI chat, real-time WebSocket, and database migration
- Built AI-powered schema analysis with OpenAI/Gemini for relationship discovery and code generation (9+ formats)
- Implemented multi-format schema import and real-time editing
- Multi-cloud migration engine (AWS, Azure, GCP) with compliance scanning (GDPR, HIPAA, SOC 2)

Tech Stack: Python, FastAPI, PostgreSQL, Redis, RabbitMQ, Docker, OpenAI/Gemini, OAuth, Next.js

Ignitch – AI-Powered Digital Advertising & Billboard Marketplace

Full-Stack Engineer | 2025 | [Live Demo](#) | [GitHub](#)

Production platform connecting advertisers with digital billboards using AI-powered content generation and multi-platform social media automation.

- Built FastAPI services for authentication, payments, social media (Instagram, Facebook, Twitter, TikTok), and IoT billboard control
- Integrated GPT-4 for automated ad content generation, intelligent scheduling, and cross-platform publishing
- Implemented secure OAuth flows, WebSocket real-time updates, and analytics aggregation
- Containerized with Docker Compose, PostgreSQL

Tech Stack: Python, FastAPI, Next.js, PostgreSQL, Redis, Docker, OAuth, Stripe, OpenAI, WebSockets, Nginx

EduNerve – Multi-Tenant Educational Management SaaS

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Multi-tenant platform for school management with AI-powered content generation and student analytics.

- Built 9-microservice architecture with complete tenant isolation and role-based access (5 user types)
- Developed 30+ REST APIs for course/quiz management, bulk CSV imports, and progress tracking
- Integrated AI quiz generation with OpenAI, file storage, and student performance analytics
- Deployed on Heroku with Docker, Redis caching, health checks, and monitoring

Tech Stack: Python, FastAPI, PostgreSQL, Redis, Docker, OpenAI, Next.js, Heroku

SoliVault – Smart Contract Security Platform with Production DevOps

DevOps Engineer | 2025 | [Live Demo](#) | [GitHub](#)

Smart contract generation and security analysis platform with enterprise DevOps infrastructure.

- Built 5 microservices architecture for an AI-powered smart contract generation with security vulnerability detection and OWASP compliance auditing
- ML-based vulnerability detection, code optimization, and automated security scanning
- CI/CD with GitHub Actions, AWS infrastructure (VPC, RDS, S3, EC2), Terraform IaC
- Security hardening: encryption, non-root containers, automated backups, disaster recovery

Tech Stack: Docker, GitHub Actions, AWS, Terraform, Python, Solidity, Linux, Bash