Ayodele David Ayooluwa

DevOps & AI Engineer | Cloud Infrastructure | Scalable Microservices
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https://github.com/davidx345 | Portfolio: https://ayodeledavid.vercel.app

Education

Covenant University Bachelor of Science in Computer Science
Expected : 2027
Relevant Coursework: Software Engineering, Databases, Cloud Computing, Data
Structures & Algorithms, AI Fundamentals, Distributed Systems

Technical Skills

Coding Languages: Python, Bash, SQL
AI/ML: scikit-learn, PyTorch, TensorFlow, OpenCV, LLMs, MLOps, Prompt Engineering
DevOps & Cloud: Docker, Nginx, GitHub Actions, Kubernetes, Terraform, Aws
DigitalOcean, CI/CD, Ansible, Prometheus, Grafana
Backend Tools: FastAPI, PostgreSQL, RESTful APIs, Agile, System Design, Linux, Shell
Scripting
Other Skills: Infrastructure as Code (IaC), Monitoring, Logging, Security, Load Balancing,
Version Control

Certifications *(In Progress)*: AWS Cloud Practitioner

Experience

HNG Internship – DevOps Intern (Stage 3)
Remote
Automated CI/CD pipelines for 12+ microservices using GitHub Actions, reducing
deployment time by 60% and increasing release frequency from weekly to daily.

- Provisioned and managed cloud infrastructure on Aws, implementing infrastructure
  as code and containerization using Docker.

- Contributed to Agile workflows using Jira and Git for ticketing and version control,
  and actively participated in stand-ups and sprint reviews.

- Ensured seamless deployment with Nginx and implemented monitoring practices
  using Prometheus and Grafana.

Project Experience

SchemaSage – Live 7-Microservice Backend

FastAPI | Docker | GitHub Actions | PostgreSQL

- Built and deployed 7 containerized microservices using FastAPI and Docker, built to
  support over 500 monthly users for now with 99.9% uptime.

- Automated deployment pipeline via GitHub Actions, reducing deployment time by
  60% and increasing release frequency.

EduNerve LMS – AI Platform built for 1000+ Students

GPT-4 API | Microservices | Real-time Analytics

- Developed an offline-first AI-powered LMS to be used by students across West Africa.

- Integrated GPT-4 for personalized learning recommendations, resulting in a 40% improvement in engagement.

- Built using a scalable microservices architecture with real-time analytics for learning insights.

SoliVolt – AI Smart Contract Rewriter

Solidity | AI Analysis | Security Auditing

- Created an AI-driven tool that analyzes and rewrites Solidity smart contracts, improving smart contract documentation and audit readiness.

- Implemented a risk flagging system to detect vulnerabilities and improve smart contract security.

AI Stock Predictor – LSTM + Sentiment Engine

LSTM | Sentiment Analysis | Financial ML

- Built an AI model using LSTM neural networks and financial sentiment embeddings to forecast market movement with 85% directional accuracy.

- Visualized buy/sell signals and volatility zones to assist in trading decisions.

FashionLens – AI Fashion Analysis Engine

Computer Vision | Fashion AI | Recommendation Systems

- Developed a computer vision tool that detects clothing types, trends, and textures to deliver personalized outfit suggestions.

- Powered by machine learning and fashion datasets to analyze user-submitted images and recommend styles.

Email Spam Classifier – ML Text Classification System

NLP | Text Classification | Machine Learning

- Designed a high-accuracy (95%) email and SMS spam classifier using NLP techniques and machine learning models like Naive Bayes and SVM.

- Included advanced feature extraction and preprocessing pipelines for robust spam detection.

Customer Churn Predictor – Predictive Analytics Platform

Predictive Analytics | Ensemble Learning | Business Intelligence

- Built a churn prediction platform using ensemble learning algorithms to identify high-risk customers.

- Delivered actionable insights to optimize customer retention strategies, including model interpretability and feature engineering.

Real-time Remote Collaboration

- Collaborated cross-functionally using Slack and Microsoft Teams to manage tasks and share knowledge during development and debugging.

- Documented solutions in shared repositories and created documentation to improve team transparency and knowledge transfer.

Agile Methodology

- Participated in Agile practices including daily stand-ups, sprint planning, and retrospectives during HNG internship and group projects.

- Used Jira and GitHub Projects to track tasks and measure sprint progress.