Aaron Ujah

Senior Backend & DevOps Engineer

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PROFESSIONAL SUMMARY

Senior Backend & DevOps Engineer with 5+ years of experience building scalable Python-based and Node.js backend systems, data pipelines, and cloud-native infrastructure. Proven experience designing APIs, integrating distributed data systems, and enabling real-time decision-making through analytics-driven platforms. Strong background in CI/CD automation, containerized deployments, and secure data handling.

CORE TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (Node.js), C#
Frameworks: FastAPI, NestJS, Express, Django
AI & Applied ML: RAG systems, LangChain, LangGraph, LangSmith, Hugging Face
Cloud & DevOps: AWS (EC2, ECS, S3, Lambda, CloudFront), Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Linux
Database & Messaging: PostgreSQL, MySQL, MongoDB, Redis, RabitMQ, Kafka

PROFESSIONAL EXPERIENCE

Dormot Technologies **- London, UK (Remote)**
Software Engineer *May 2025 – Present*

- Designed and scaled multi-tenant backend services using NestJS and PostgreSQL, supporting **1,000+ property units and hundreds of managers**.
- Built and integrated a resilient payments infrastructure using **Stripe, Flutterwave, and Paystack**, processing **millions in transactions** across multiple regions with high reliability.
- Developed a centralized event-driven notification service using **RabbitMQ**, delivering thousands of in-app and email notifications weekly with **~ 95% delivery success rate**.
- Designed and implemented an **AI-powered risk management system** using **Python (FastAPI)** to detect late payments, service issues, and communication gaps, enabling proactive decision-making and improving tenant satisfaction.
- Architected CI/CD pipelines and deployment workflows using **GitHub Actions, Docker, and Cloudflare**, reducing downtime and improving release stability.
- Designed and launched the backend architecture for a new **visitor access product (GuestPass)**, enabling secure, real-time access management for property environments.

Centenum Technology Group **- Lagos, Nigeria (Remote)**
Backend Developer (Contract) *September 2024 – May 2025*

- Developed notifications service for **Diet Bloom (health & nutrition platform)** using Node.js, supporting core workflows for data tracking and user management.
- Developed the admin platform for SeedX, a property investment solution supporting **2,000+ active users**, enabling efficient user, asset, and transaction management.
- Built a lightweight **GraphQL backend** for Wyseflex, improving data retrieval efficiency and enabling seamless integration for property sales operations.

- Implemented automated testing across critical workflows, **reducing production errors by 30%** and improving system reliability.

Vantage Management Consultancy **- Abuja, Nigeria**
Software Engineer *October 2022 – April 2025*

- Developed a **national data collection and monitoring system** for a government agency using ASP.NET and .NET MAUI, enabling real-time field data capture, validation, and reporting across distributed locations.
- Led backend engineering for a multi-tenant **HRIS platform**, integrating payroll, attendance, performance, and employee records for enterprise clients.
- Delivered backend solutions that **reduced manual HR processes by 25%**, improving operational efficiency and data accuracy across client organizations.
- Designed and implemented a **microservices architecture**, improving system scalability and enabling seamless feature expansion with minimal downtime.
- Established CI/CD pipelines with automated testing and deployments, **reducing release cycles by 40%** and improving system reliability.
- Collaborated cross-functionally with product, frontend, and UX teams, contributing to a **30% increase in product adoption**.
- Provided architectural guidance and code reviews, improving backend code quality and accelerating onboarding for new engineers.

SELECTED PROJECT

Sidekeek - AI Conversational Data Collection Platform - *In active development*

- Built an **AI-powered data collection system** enabling structured data capture through conversational interfaces.
- Designed backend service to process, validate, and transform inputs into structured datasets for analytics and reporting.
- Implemented **real-time data pipelines** to ingest and synchronize data for dashboards and decision-making systems.
- Developed dynamic, LLM-driven workflows to guide adaptive questioning and improve data quality and completeness.

EDUCATION

Bachelor of Engineering in Mechanical Engineering
Federal University of Technology, Minna *November, 2019*

- *Project:* DEVELOPMENT OF A DRIVER AND VEHICLE MONITORING SYSTEM WITH AI AND EMBEDDED SYSTEMS

AWARDS & CERTIFICATIONS

- **AWS Certified Cloud Practitioner** – Amazon Web Services
- **Hackathon Winner — Bill & Melinda Gates Foundation**
  Built a scalable backend for a digital thrift platform promoting financial inclusion.

- **Hackathon Winner — Africa's Talking**
  Developed backend systems for a platform connecting users to clean energy services.