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Profile

Backend & AI Engineer with 3+ years of experience designing scalable backend systems, enterprise workflow platforms, and AI-powered applications. Experienced in multi-role approval workflows, multi-tenant architectures, and integrating LLMs with retrieval-augmented generation (RAG) pipelines. Skilled at turning complex processes into automated, production-ready systems.

Education

Electrical and Electronics Engineering, *Nile University of Nigeria* Abuja, Nigeria

Professional Experience

- Backend & System Architect,** *African University of Science and Technology* 05/2025 – Present
Abuja, Nigeria

 - Built university-wide memo & requisition management system with multi-level approval workflows.
 - Developed online admission platform supporting applicant submissions and multi-role review processes (HODs, admissions committee, registrar, finance).
 - Implemented role-based access control and secure backend APIs for institutional operations.
 - Designed scalable database schemas for high-volume administrative processes.
 - Initiated development of a Learning Management System (LMS) to enhance course delivery and student engagement (in progress).
- Backend & AI Engineer,** *ProGate Technologies* 01/2025 – 12/2025
Abuja, Nigeria

 - Built backend architecture for a mobile-based digital access control platform.
 - Developed RESTful APIs for user management, QR-based authentication, visitor validation, and role-based access control.
 - Implemented secure multi-tenant systems with optimized database performance.
 - Developed real-time access validation workflows between mobile apps and backend services.
 - Designed and deployed AURA, an AI-powered voice assistant to automate user interactions and streamline security workflows within the app.
- Backend developer,** *Cammy Integrated Services* 06/2024 – 10/2024
Abuja, Nigeria

 - Collaborated with a team to build backend systems for a fintech app focused on loans and utilities using Python, FastAPI, and PostgreSQL.
 - Integrated Flutterwave virtual accounts for seamless fund transfers and receipts.
 - Worked with third-party APIs to enhance functionality and user experience.
 - Designed and implemented secure OAuth2-based authentication and RESTful APIs.
 - Added CORS security and push notifications for real-time updates.
 - Contributed to delivering a scalable and efficient application.
- Backend Developer,** *LFReturnMe* 11/2023 – 04/2024
Abuja, Nigeria

 - Developed and implemented the backend architecture for the LFReturnMe website.
 - Utilized technologies such as Python, FastAPI, and MongoDB to build scalable and efficient server-side applications.

- Collaborated with the frontend team to integrate RESTful APIs, ensuring seamless communication between the client and server.
- Conducted thorough testing and debugging to maintain high performance and reliability of the backend systems.
- Gained valuable experience in backend development, database management, and API integration.

System Engineer, M3W Technologies

01/2023 – 09/2023
Abuja, Nigeria

- Led design and development of advanced drone systems, integrating hardware and software for autonomous operations.
- Implemented machine learning algorithms for object detection, navigation, and enhanced autonomy.
- Coordinated the full engineering lifecycle of drone operations, ensuring robust safety protocols and operational reliability; deployed system successfully.
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Skills

Technical skills

- Programming Languages: Python, Go, JavaScript
- Backend FastAPI, Flask, Django
- Database Management: SQL(MySQL and PostgreSQL) noSQL (MongoDB, Firebase, Redis)
- AI & Automation: RAG pipelines, n8n, embeddings, vector search, LLM API integration, prompt engineering
- Cloud & DevOps: Docker, Nginx, Render, Jenkins, Github actions, VPS

Data Analysis & Machine Learning

- Data Analysis: Pandas, NumPy, Data Visualization (Matplotlib, Seaborn)
- Machine Learning: Scikit-Learn, TensorFlow

Volunteering

- IEEE R8 Afican Students and Young Professional Congress 09/ 2023
- NIGERCON 2022 IEEE Nigeria Section 4th International Conference