

Adejo Ojomideju Gideon

☎ +234-701-603-5694 — ✉ ojomideju2003@gmail.com — 🔗 linkedin.com/in/deju-adejo —
🐙 github.com/DejusDevspace — 🐦 x.com/adejo_deju — 🌐 dejuadejo.vercel.app

WORK EXPERIENCE

Software Engineer | Abuja, Nigeria
Blackbox Technology Systems Limited

Feb 2026 – Present

- Develop production web applications and enterprise platforms across frontend and backend integrations, primarily using **React, Next.js, TypeScript, and Tailwind CSS**, delivering document management, workflow, internal dashboards, and client-facing systems.

Robotics & AI Instructor | Contract
AltSchool Africa

May 2026 – July 2026

- Designed and delivered an 8-module virtual AI & Robotics curriculum for young women aged 14–21 with no prior technical background, developing instructional materials and guiding hands-on practicals in **TinkerCAD, MakeCode, and Google Teachable Machine**, including image classification model training, deployment, and integration into block-based autonomous programs.

Generative AI & Data Science Intern | Remote
FlexiSAF Edusoft Limited

Sep 2025 – Dec 2025

- Worked on applied AI/ML systems spanning **deep learning, ensemble methods, reinforcement learning, NLP, time-series forecasting, and Apache Spark**, contributing to model development, feature engineering, evaluation, and explainability.

Machine Learning Intern | Abuja, Nigeria
National Center for Artificial Intelligence and Robotics (NCAIR)

Feb 2024 – Sep 2024

- Developed and evaluated **machine learning systems for robotics and data science applications**, including model deployment on edge devices and integration of ML capabilities into autonomous systems.

Mechatronics Engineering Intern | Abuja, Nigeria
National Space Research and Development Agency (NASRDA)

Jun 2023 – Sep 2023

- Supported **embedded systems, robotics integration, electronics, and mechatronics development** in applications related to space research and satellite systems.

PROJECTS

FPL Gaffer | Python, LangGraph, WhatsApp (Twilio), FastAPI, Groq/OpenAI, GitHub Actions

🔗 <https://github.com/DejusDevspace/fpl-gaffer>

- Built a WhatsApp-native Fantasy Premier League co-manager using a **LangGraph tool-calling** architecture with **14 purpose-built tools** for live FPL data, player analysis, expert-source retrieval, and user squad/transfer history, with persistent **Postgres-backed conversation memory**.
- Diagnosed and optimized a connection/caching bottleneck in the FPL data layer, reducing **end-to-end turn latency from 25–60s to 2.5–13s** and per-turn token usage from **20k+ to 2k–9k (~55–90% reduction)**.
- Designed a **multi-provider LLM architecture** with tier-based reasoning budgets and usage-metered subscriptions, currently running in **closed beta with 8 users**;

Tether | Python, RAG, Qdrant, Sentence Transformers, Whisper, Groq, Streamlit, RAGAS

🔗 <https://github.com/DejusDevspace/tether>

- Built a **multimodal, source-grounded RAG system** that turns workplace meetings and documents into searchable organizational memory, supporting **speaker-aware retrieval, hybrid BM25 + semantic search, and precise document/timestamp citations**.

- Engineered the end-to-end pipeline for **PDF ingestion, local Whisper transcription, speaker diarization, vector indexing, retrieval, and LLM generation**, with specialized modes for answers, fact checking, and action-item extraction.
- Evaluated retrieval and generation performance across **8 documents and 4 meeting recordings**, achieving **sub-second retrieval (0.10–0.35s)** and **~1–2s end-to-end responses** for typical queries, with RAGAS-based quality evaluation.

GrayFiles | React, Next.js, TypeScript, Tailwind CSS

 <https://grayfiles.com.ng>

- Developed the core frontend of a production document management and workflow platform used by **~500 active users** across government offices and SMEs, implementing complex document workflows, RBAC, tenant-specific functionality, and a dynamic template builder.
- Built document automation features including stamping, minuting, signing, template rendering, and programmatic PDF generation; optimized PDF processing from **10–15s to 3–5s (~50–67% faster)**.
- Improved application performance with **SWR-based data caching**, reducing repeat page loads from **3–5s to under 1s**, while optimizing UI responsiveness and overall user experience.

FMBN Website | React, Next.js, TypeScript, Tailwind CSS

 <https://fmbn.gov.ng>

- Contributed to the frontend development of the **Federal Mortgage Bank of Nigeria’s website re-design**, covering both the public-facing site and an **internal CMS/admin panel** within a single Next.js App Router application.
- Developed core CMS functionality including **content management workflows, role-based authentication, and editorial interfaces** for news, documents, pages, media galleries, and staff management.
- Implemented **SWR-based caching and background polling** to synchronize public-facing content with CMS updates while improving data freshness and page performance.

EDUCATION

Bowen University, Osun State, Iwo

Bachelor of Engineering (B.Eng) in Mechatronics Engineering

July 2025

LEADERSHIP & ACTIVITIES

Python Programming Tutor | Iwo, Nigeria

2024 – 2025

Engineering Club, Bowen University

- Taught "Python for Engineering Innovation" course to engineering students, covering programming fundamentals and practical applications.
- Developed curriculum and hands-on projects to help students apply Python to solve engineering problems.

TECHNICAL SKILLS

Languages: Python (ML/AI, Automation, Data Science), Go, TypeScript, C++ (IoT & Robotics), SQL, HTML & CSS (responsive)

ML/AI & Data Science: PyTorch, TensorFlow, Keras, Scikit-learn, LangChain, LangGraph, LangSmith, LangFuse, HuggingFace, XGBoost, LightGBM, Pandas, NumPy, Matplotlib, Seaborn, Apache Spark

Web & Backend: React.js, FastAPI, Flask, Node.js (Express.js), Nest.js, Firebase, Supabase

DevOps & Tools: Git, Docker, Linux, Azure, Railway, Vercel, Render, Streamlit, Google Colab, Postman

IoT & Embedded: Arduino, RaspberryPi, ESP32, MQTT

Databases: PostgreSQL, SQLite, FAISS, Chroma, Pinecone, Qdrant, Supabase, Neon