DANIEL IGWE

Nigeria | USA

+234-813-506-5161 | digwe790@gmail.com | https://www.linkedin.com/in/daniel-igwe-44642a276
https://github.com/cptcode123

PROFILE SUMMARY

Innovative Software Engineer with a strong Python background and robust problem-solving skills, currently pursuing a Bachelor's in Mechatronics Engineering. Experienced in building scalable systems and developing end-to-end solutions, with practical exposure to backend development and data engineering. Eager to contribute to agile teams by writing reliable, testable code and learning new technologies while adapting to fast-paced environments.

EDUCATION

Calvin University   **Sep 2021 - Apr 2026**
Bachelor's Degree, Mechatronics Engineering
  • **Achievements:** Presidential Scholarship Recipient, Mosiac Scholarship Recipient, Klamers Scholarship Recipient

JOB EXPERIENCE

Capnote   **Dec 2024 - May 2025**
Data Engineering Intern / Data Analyst Intern   *Remote*
  • Engineered and maintained ETL pipelines to collect, clean, and transform data from various sources, including web scraping tools and APIs, ensuring reliable data flow throughout the development lifecycle.
  • Developed an AI framework using the OpenAI API and Python for data mining, aligning with best practices in coding, testing, and code documentation.
  • Collaborated with data analysts and engineers to prepare comprehensive reports, dashboards, and visualizations using Excel, SQL, and Python, contributing actively in cross-functional meetings.
  • Participated in design and development discussions during cross-functional meetings to understand data requirements and support software development activities.
  • Enhanced data accuracy by supporting data cleaning, transformation, and validation across multiple datasets, demonstrating strong problem-solving skills.
  • Implemented and deployed scripts for web scraping and data extraction from financial, e-commerce, and academic websites to improve data collection efficiency.

906Global   **Oct 2024 - Present**
Backend Developer / AI Engineer   *Nigeria*
  • Directed the development of an AI-powered proposal generator, applying software engineering principles to design, code, test, and maintain a reliable system.
  • Designed and implemented an AI-driven legal chatbot leveraging natural language processing with Python, emphasizing collaborative development with legal experts and product designers.
  • Built and sustained robust backend services using Python and Node.js to support chatbot functionality, user authentication, and session management, closely aligning with the software development lifecycle.
  • Coordinated with cross-functional teams to ensure compliance and quality standards in output while participating in regular stand-ups and code reviews.
  • Optimized backend systems to improve performance and real-time processing, supporting a growing user base and adapting quickly to evolving technological requirements.

RELEVANT PROJECTS

Legal AI Assistant   **Jan 2025 - Mar 2025**
TyroLegal   *Lagos*
  • Designed and deployed a legal chatbot using Retrieval-Augmented Generation (RAG) to provide accurate legal information tailored to Nigerian users.
  • Processed 1500 Nigerian legal texts into chunked embeddings for efficient semantic search and contextual response generation.
  • Built a user-facing interface with StreamLit that allowed real-time question answering, leveraging LLMs to interpret and explain legal concepts, form and affidavit generation, and offer general legal advise.
  • Fine-tuned prompt engineering and context retrieval to optimize chatbot performance for common legal inquiries in Nigeria.
  • Implemented vector search using Supabase's PostgreSQL and pgvector extension to store and retrieve legal document embeddings.
  • Ensured ethical AI use by clearly communicating the chatbot's informational role and non-advisory limitations.

Smart Study Assistant   **Dec 2024 - Present**
Personal   *Lagos*
  • Built an AI-powered tool that transforms textbook PDFs into structured learning material using Retrieval-Augmented Generation (RAG).
  • Designed for accessibility by international college students, with multilingual and visual features in progress.

CORE SKILLS

- **Programming Languages**: Python, JavaScript
- **Software Development**: Object-Oriented Programming, Software Development Lifecycle
- **Data Management & Tools**: Postegre SQL, Microsoft Excel
- **Problem Solving**: Engineering-level Problem Solving, Analytical Skills, Data Structures and Algorithms
- **Data Science & AI**: Data Analysis, Data Visualization, LLMs, Generative AI, OpenAI, Retrival Augmented Generation
- **APIs**: APIs

RELEVANT CERTIFICATIONS

- **MCKINSEY FORWARD PROGRAM:**Mckinsey and Company, 2024
- **SCIENTIFIC COMPUTING IN PYTHON:**FreeCodeCamp, 2024
- **RELATIONAL DATABASES:**FreeCodeCamp, 2024
- **DATA ANALYSIS IN PYTHON:**FreeCodeCamp, 2024

Extracurricular

African Student Association   **Sep 2021 - Apr 2024**

Program Director

- Coordinated cultural events to foster cross-cultural understanding.
- Led planning and evaluation of student-led initiatives with an international audience.
- Created an inviting space for international students, fostering a community culture

Languages

- English (Native Speaker)
- French (Conversational)