



Emmanuel Popoola

Backend Developer

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Summary

Enthusiastic backend developer with a strong foundation in building scalable, production-ready APIs using FastAPI and modern Python tools. Experienced in architecting secure authentication systems, real-time audio processing services, and AI-integrated applications. Passionate about clean code, documentation, and delivering impactful backend solutions that support frontend teams and end-users. Currently seeking backend engineering opportunities to apply my skills in building and scaling systems.

Education

Federal University of Abeokuta Agriculture

2020 - 2024

Mechatronics Engineering

Bachelor of Engineering

Gateway ICT Polytechnic, Saapade

2016 - 2018

Electrical Electronics Engineering

National Diploma

Projects



E-Library API

FastAPI, SQLAlchemy, Developed a secure and scalable backend for an online library system. Includes user authentication with email verification, role-based access control (RBAC), admin panels, download history, and cloud-based file storage using Amazon S3.

🔗 <https://github.com/Gifted-Dev/e-library>

Tech Stack: FastAPI, SQLAlchemy, PostgreSQL, Alembic, JWT, S3, FastAPI-Mail



AI-Powered Educational Chatbot

Built an educational chatbot API allowing users to engage in conversations with an AI model. Features RESTful endpoints, persistent chat history, and scalable deployment-ready architecture with CORS enabled.

🔗 https://github.com/Gifted-Dev/ai_chatbot_project

Tech Stack: FastAPI, SQLAlchemy, Pydantic, OpenAI, Uvicorn



LiveScribe – Real-time Audio Transcription

Implemented real-time audio transcription using AssemblyAI's streaming API. Integrated bi-directional WebSocket communication for live speech-to-text and built a responsive UI with Streamlit.

🔗 <https://github.com/Gifted-Dev/livescribe>

Tech Stack: FastAPI, Streamlit, WebRTC, WebSockets, AssemblyAI



MVP Audio Transcription Service

Created a high-accuracy transcription service that processes audio files in real-time and generates downloadable, formatted PDF transcripts. Optimized with GPU acceleration and multi-format audio support.

🔗 https://github.com/Gifted-Dev/mvp_audio_transcription

Tech Stack: FastAPI, OpenAI Whisper, PyTorch, ReportLab