

# Yusuf Lawal

Nigeria

lawalyusufimp@gmail.com | [Github](#) | [Portfolio](#)

## Education

---

**Osun State University, Nigeria**

Sep. 2021 - Sep. 2025

*Bachelor of Science in Computer Science*

## Experience

---

### Indie Projects

Dec 2024 — Present

*AI Engineer*

- Designed and developed AI-powered conversation simulator for practicing high-stakes real-life conversations with coaching feedback
- Designed and developed a Retrieval-Augmented Generation (RAG) intelligent assistant to streamline the e-commerce shopping experience and improve product discovery
- Integrated vector search and LLM-powered reasoning to deliver context-aware, accurate product recommendations based on user queries and search intent
- Designed and developed an LLM-powered note management system that transforms personal notes into a living, queryable knowledge base

### TIXVNT TECHNOLOGIES LIMITED

Oct 2025 — Present

*Community Manager*

- Promoting TIXVNT through strategic community engagement initiatives, increasing user participation and feedback quality
- Gathering actionable user insights and feedback, translating them into product improvement recommendations to enhance platform usability and engagement
- Organize and host Spaces and live talk sessions with top TIXVNT users to drive adoption, knowledge sharing, and product advocacy

### IMTC, Osun State University

Dec 2024 — Aug 2025

*AI, Software Engineer*

- Designed and implemented a QR-based automated attendance management system for tertiary institutions, improving accuracy, efficiency, and data integrity
- Collaborated with senior engineers to optimize institutional systems, gaining exposure to enterprise-level engineering workflows and real-world problem solving
- Acquired advanced Linux experience while working with network containers, virtualization, and server environments

### OIC HUB LIMITED

Jun 2023 — Nov 2024

*Software Engineer*

- Designed and developed a web-based voice navigation system, enabling seamless voice-driven interaction and improving accessibility and user experience
- Collaborated closely with senior engineers and product stakeholders, gaining hands-on industry experience in agile development and real-world system design
- Designed and developed end-to-end web applications using the MERN stack (MongoDB, Express.js, React, Node.js), focusing on scalability, performance, and maintainability
- Gained strong working experience with the Linux operating system, including file organization, system configuration, debugging, and workflows

## Projects

---

**Rehearse:** A voice first AI-powered conversation simulator. Rehearse helps you practice high-stakes conversations with realistic AI characters across work, family, health, and social scenarios.

- Create scenarios
- Practice live scenario with AI character
- AI responds in-stream(voice first)
- Source citation (shows which notes were used)
- Session transcript and feedback generated
- Reviews history, progress, and can retry with improved strategy

Technology Stack: Nextjs, Framer Motion, Express + TypeScript Groq, OpenAI's whisper-large-v3 STT, llama-3.1-8b-instant, ElevenLabs TTS

**E-VEE**: Enhanced Virtual E-Commerce Engine is an intelligent assistant designed to streamline the e-commerce shopping experience. A Next-gen e-commerce shopping assistant

- Instant product lookups and information
- Real-time cart operations (Add, remove, update)
- Real-time cart status updates
- Direct checkout and order-flow assistance
- Check [HERE](#) for project manuscript.

Technology Stack: Nextjs, Python, FastAPI, ChromaDB, sentence-transformers/all-MiniLM-L6-v2, FakeStore API, Redis

**Mnemonic**: An AI-Powered Note Management System. Mnemonic turns your notes into a living knowledge base. Write naturally, then ask questions, by text or voice and get precise answers from your own notes

- Create, read, update, delete notes
- Query notes with natural language using voice or text input
- Natural language question answering
- Context-aware responses using RAG
- Source citation (shows which notes were used)
- Check [HERE](#) for project manuscript.

Technology Stack: Nextjs, Framer Motion, Python, FastAPI, Groq, OpenAI's whisper-large-v3, llama-3.1-8b-instant, sentence-transformers/all-MiniLM-L6-v2, PostgreSQL(pgvector)

**Attendease**: An automated attendance management system that leverages QR code technology to streamline the process of tracking attendance in educational institutions. This system eliminates manual attendance taking and provides efficient, accurate records for administrators and instructors

- Automatically generates unique QR codes for sessions and classes
- Quick attendance marking through device cameras
- Live attendance statistics and monitoring
- Comprehensive attendance reports with filtering options
- CSV, PDF, and Excel export functionality
- Analytics on attendance trends and patterns
- Check [HERE](#) for project manuscript

Technology Stack: MERN, Framer Motion, HTML5QR, TailwindCSS

**Voice-control**: A minimal landing page showcasing voice-controlled web navigation using vanilla js

- Voice navigation
- Scroll up, middle and bottom using voice commands

Technology Stack: HTML, TailwindCSS, JavaScript

## Technical skills

---

**Languages**: Python, TypeScript

**Technologies and Frameworks**: Nextjs, Nodejs, MERN, FastAPI, Claude; Codex 🤖

**AI Engineering tools**: RAG, Model fine-tune, Prompt engineering, Guardrails, Adversarial testing, Hugging Face, Langchain, PyTorch

