

# FRANCIS GBOHUNMI

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## EDUCATION

**Federal University of Technology, Akure**  
Bachelor of Technology, Statistics

Ondo, Nigeria

## TECHNICAL SKILLS

**Backend & Languages :** C# | ASP.NET Core | .NET 8 | Entity Framework Core | Python | SQL.

**Architecture & APIs:** Microservices | Clean Architecture | RESTful API Design | JWT.

**Databases & Cloud:** MS SQL Server | Pinecone | AWS (EC2, S3, RDS, Lambda).

**AI & Tools:** OpenAI API | RAG | Scikit-Learn | Docker | Git | Visual Studio Code

## WORK EXPERIENCE

### MODEL CARBON Ltd | Backend Developer - Junior / QA Tester - Junior

December 2025 – Present

- Engaged to contribute to the development of the **Converge ERP System**, a custom enterprise solution, by providing professional backend and quality assurance services.
- Tasked with building, testing, and maintaining backend services, APIs, and microservices while adhering to established architecture standards and documentation guidelines.
- Collaborated with frontend, AI, and QA teams to perform code reviews, debugging, and manual testing, ensuring smooth integration and systematic bug tracking prior to release.

### KUDA MFB | Backend Developer

June 2025- September 2025

- Collaborated with a cross-functional team of senior experts to define, develop, and launch a major feature suite aimed at increasing user value and engagement.
- As part of the backend team, played a key role in implementing three user engagement features (premium subscription, referral rewards, and a loyalty system) using **ASP.NET Core** and **SQL Server**.
- Assisted in gathering user requirements and translating business objectives into technical specifications, ensuring alignment between stakeholder vision and final product delivery.

### X3 LAB | .NET Developer

January 2025- June 2025

- Contributed to the development and implementation of a scalable backend system for a university-focused edutech platform using the .NET framework.
- Engineered **20+ key API endpoints** and core business logic using **ASP.NET Core Web API** to power critical student features, including course registration, result management, and academic progress tracking for over 5,000 users.
- Collaborated with the development team to translate project requirements into efficient and reliable backend services, ensuring seamless integration with the front-end.

### AKURE TECH HUB | AWS SOLUTIONS ARCHITECT (BOOTCAMP)

June 2024- July 2024

- Gained intensive, hands-on experience in core AWS services, including provisioning **EC2** instances, deploying static websites with **S3**, and managing **Relational Database Services (RDS)**.
- Developed and deployed a serverless web application as a capstone project, which utilized **AWS Lambda** to trigger a function that identified the nearest hospital based on a client's IP address.
- Acquired foundational knowledge in designing scalable, fault-tolerant, and cost-effective cloud infrastructure in line with AWS best practices.

## PROJECTS

### GlazionStudio Pottery AI | [LINK](#)

July 2025 - September 2025

- Developed an advanced AI-powered pottery knowledge API utilizing vector embeddings and RAG (Retrieval-Augmented Generation) architecture, achieving intelligent query processing with 70%+ relevance threshold through OpenAI embeddings and Pinecone vector database integration.
- Implemented a sophisticated multi-modal AI system combining text-based pottery expertise with image analysis capabilities, enabling recipe-to-image generation and visual similarity matching using OpenAI Vision API and DALL-E integration with Cloudinary cloud storage.
- Designed a scalable .NET 8 microservices solution with Clean Architecture patterns, featuring automated knowledge base seeding from multiple data sources, conversation memory management, and unified query processing handling both

pottery-specific and general conversational AI interactions.

- Built comprehensive data processing pipelines with intelligent chunking strategies and batch optimization, managing large pottery knowledge datasets with automated embedding generation, vector indexing, and fallback mechanisms ensuring 99%+ system reliability and response accuracy.

#### **Carepulse Healthcare Management System | .NET Core, RESTful API, JWT | [LINK](#)**

- Designed and developed a comprehensive RESTful API using ASP.NET Core to serve as the backend for a complete healthcare management application.
- Engineered a secure, role-based authentication system (Admin, Doctor, Patient) utilizing JSON Web Tokens (JWT) to protect sensitive endpoints and manage access control.
- Implemented core functionalities for appointment scheduling, patient record management, and data handling for doctors and administrative staff.

#### **Fox River Penitentiary(Inmate Management System) | [LINK](#)**

- Architected and built a centralized software solution designed to streamline and automate the management of inmates, enhancing operational efficiency for correctional staff.
  - Engineered core modules for detailed inmate information tracking, sentence management, and real-time activity logging to improve supervision and overall facility security.
  - Integrated key functionalities, including a secure internal messaging system and automated reporting tools, to facilitate effective communication and data-driven decision-making among staff.
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