

Francis Ochiagha

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Education

University of Manitoba: Winnipeg, Manitoba
BAsC Major in computer science, Concentration: Sept 2020 – June 2025
Software Engineering and web development.
AWS Certified Cloud Practitioner – foundational knowledge of cloud infrastructure to support IT operations and troubleshooting.

Experience

University of Manitoba Advancement Services Jan 2025 – April 2025
Software Developer

- Developed an AI-assisted matching system using Python, leveraging pandas, RapidFuzz, and OpenAI API to compare structured obituary and alumni datasets for the purpose of identifying and tracking deceased alumni and donors.
- Integrated and evaluated multiple AI models (DeepSeek, Gemini, GPT) for record matching accuracy, building a scoring pipeline with model benchmarking and confidence thresholds.
- Engineered a data extraction and preprocessing workflow using custom CSV parsers, automated match classification, and audit-traceable JSON/CSV output generation.
- Applied fuzzy matching and LLM reasoning to handle incomplete, inconsistent, or ambiguous data with human-level precision.
- Managed evaluation metrics (e.g., precision, recall, F1-score) to validate model performance across 200+ test cases.

Projects

Recipe Shop – Web and Mobile Application Development Sept 2025 – Dec 2025

- Developed the front-end of the application using React to create a responsive and user-friendly interface.
- Designed and implemented the back end using Node.js and Express.js for efficient API handling and server-side functionality.
- Integrated MongoDB for robust data storage, managing user profiles and recipe information.
- Utilized the Edamam API to fetch real-time recipe data and nutritional information, enhancing user experience.

Tabletop RPG Collaboration App Developer May 2024 – Aug 2024

- Developed a mobile application using Android Studio for creating an intuitive platform that connects users for tabletop RPG games.
- Implemented HSQldb as the database to manage user data, game sessions, and campaign availability, ensuring quick access and efficient storage.
- Designed the user interface with a focus on simplicity and ease of navigation, making it seamless for users to search for others, join, or host campaigns.

Custom Database Server for Analyzing UK Car Accident Data Jan 2024 – April 2024

- Designed and developed a custom database server to efficiently analyze the 2008 UK Car Accident Database, using SQL for data management and querying.
- Implemented a clean and optimized schema to improve query performance and ensure faster data retrieval for large datasets.
- Enabled users to run customizable queries, allowing them to explore accident trends and patterns based on specific criteria, such as location, time, and weather conditions.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, JUnit, WordPress
Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ, Eclipse
Productivity & Analysis: Microsoft Excel, Microsoft 365, Google Workspace