

Francis Ochiagha

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Education

UNIVERSITY OF MANITOBA

Winnipeg, Manitoba

BASc Major in computer science, Concentration:
Software Engineering and web development.

Sept 2020 – June 2025

AWS Certified Cloud Practitioner – foundational knowledge of cloud infrastructure to support IT operations and troubleshooting.

Professional Development / Affiliations : The Onyx Initiative – Talent Development Program

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