Abdulrahman Odejayi

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EDUCATION

Carleton University **Ottawa, ON**

B.C.S. Honours in Computer Science (Co-op option)

Third year standing, **3.9/4 CGPA** Expected Graduation Date: April 2027

- **Concentrations:** AI and Machine Learning, Minor in Business (Entrepreneurship).
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering, Systems Programming, Discrete Mathematics, Web Development. Linear Algebra, Calculus.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, React, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks/Libraries: Express, Node.js, OpenAI API, JavaFX, Streamlit, Bootstrap, TailwindCSS, pandas, NumPy, Matplotlib

Developer Tools: Git, GitHub, Linux, VS Code, Visual Studio, IntelliJ, Eclipse

PROJECTS

AI-powered Resume Enhancer [Live Demo | GitHub] **React, Express, OpenAI API, TailwindCSS, jsPDF**

- Developed a full-stack web application utilizing **React** for the frontend and **Express** for the backend, integrated with **OpenAI's GPT-4o** to provide real-time **AI-powered resume suggestions** focused on clarity, impact, wording, and completeness.
- Built a responsive and user-friendly interface with **TailwindCSS**, ensuring fast loading times and a clean design.
- Integrated **jsPDF** to allow users to download **AI suggestions** as a formatted PDF, improving sharing and offline usability.
- Deployed the application on **scalable cloud platforms** for reliable and high-performance hosting.

House Price Prediction Model [Live Demo | GitHub] **Python, Scikit-learn, Streamlit, Pandas, Numpy**

- Developed a **machine learning model** using **Scikit-learn**, achieving an **R^2 score of 0.73** and a **Mean Absolute Error (MAE)** of ~$67,000, predicting house prices based on key features like bedrooms, bathrooms, and location from a **Kaggle dataset**.
- Engineered and preprocessed features to improve model accuracy and interpretability, ensuring reliable predictions.
- Developed and deployed an interactive **Streamlit** web app for **real-time predictions**, making the model accessible to users with an intuitive interface.
- Awarded a **Bronze Merit Award** at the **Bay Area Science and Engineering Fair** for the project's innovation and impact.

Search Engine [GitHub] **Java, JavaFX, OOP, TF-IDF, PageRank**

- Designed and implemented a scalable search engine that utilized TF-IDF and cosine similarity algorithms for accurate document ranking and retrieval.
- Implemented a web crawler to dynamically fetch and parse web content for efficient search retrieval.
- Enhanced ranking accuracy and search relevance by incorporating optional PageRank-based boosting.
- Applied **object-oriented programming principles**, ensuring code scalability and maintainability.
- Designed a **JavaFX-based GUI** to allow intuitive user interaction with the search engine, enabling users to easily search and view results.

EXPERIENCES

Coding Tutor July 2023 – August 2024

Light of Islam Canada *Brampton, ON*

- Tutored **Python** and **Java**, improving student understanding of core concepts and earning positive feedback for simplifying complex topics.

Production Operator (Summer Student) May 2024 – August 2024

Aspire Bakeries *Brantford, ON*

- Optimized workflows, troubleshot equipment to minimize downtime, and managed tasks efficiently during **12-hour shifts**, boosting overall productivity.