Zikora Chinedu

zikora.chinedu@yahoo.com | linkedin.com/in/zikorachinedu | zikorachinedu.com | github.com/zikompo

Education

University of Toronto Expected Jun. 2027

Honours BSc. in Computer Science, Minor in Mathematics and Statistics | GPA: 3.75/4.0

- Relevant Coursework: Data Structures & Analysis, Software Design, Systems Programming, Computer Organization

Experience

Full Stack Developer Jan. 2025 – Present

Wealthseed *Toronto, ON*

- Collaborating with a team to build a financial literacy platform that educates users on investing, budgeting, and saving.
- Implementing secure API endpoints using **Next.js**, **PostgreSQL**, and **TypeScript** to manage student-teacher access control.
- Optimizing database queries and authentication flows to enhance platform performance and security.

Quantitative Finance Analyst Sep. 2024 – Present

Sharpe Financial Research Group *Toronto, ON*

- Executed **backtesting analysis** across **30** different portfolio combinations of S&P 500 stocks using **Python** and data analysis frameworks such as **Pandas** and **NumPy**.
- Implemented multi-strategy portfolio analysis framework processing **10-stock** portfolios with daily rebalancing, achieving maximum Sharpe ratio of **0.81** and minimizing drawdown to **22.71%**
- Utilize my **programming** and **ML** skills to assist in the construction of advanced financial models and conduction of quantitative research.

Projects

LocateAble | *React, PostgreSQL, Gemini API, Google Maps API, Python, Supabase, Flask*

- Developed a **web application** that allows users to rate locations based on their accessibility to people with disabilities.
- Utilized the **Google Maps API** to display locations and the **Gemini API** to fetch locations that match user queries.
- Implemented a **PostgreSQL** database to store user ratings and location data.
- Used **Supabase** for user authentication and **Flask** to create a **RESTful API** for the backend.

HeriTrace | *React, Vite, OpenAI API, Typescript*

- Developed a **web application** that allows users to learn about their ancestry based on their name.
- Utilized the **OpenAI API** to generate a brief history of the user's name and its origin.
- Implemented a **React** frontend with **Vite** for faster development and **Typescript** for type safety.

Loan Default Predictor | *Python, Pandas, Matplotlib, Scikit-learn, NumPy, Seaborn*

- Created a loan default predictor that used **Exploratory Data Analysis** and **Logistic Regression** to predict whether someone would default on a loan or not based on given parameters such as Education, Credit History, etc.
- Preprocessed data by handling missing values, standardizing numerical data, and encoding categorical variables.
- Used a confusion matrix to check the efficacy of the model.
- Achieved an accuracy of **79%**, a weighted precision of **78%**, and a **weighted recall** of **79%**, and an weighted f1-score of **78%**.

Salary Predictor | *Python, Pandas, Matplotlib, Scikit-learn, NumPy, Seaborn*

- Created a salary predictor that used **exploratory data analysis** and **machine learning algorithms** to predict salaries based on numerical and categorical data.
- Developed custom **Matplotlib** functions to programmatically generate and display graphs, streamlining the data visualization process and eliminating the need for manual data entry.
- Evaluated multiple algorithms and used the best model, a **Random Forest Regressor**, for predictions.

Technical Skills

Languages: Python, HTML, CSS, Java, C, Assembly, JavaScript, SQL, Typescript
Developer Tools: Git, VS Code, Visual Studio, PyCharm, JetBrains IDEs, CPUlator, PostgreSQL, pgAdmin
Frameworks & Technologies:React, Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, Transformers, Scikit-learn, spaCY, Seaborn, JavaFX