

Zikora Chinedu

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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

EXPERIENCE

Full Stack Developer

Jan. 2025 – Present

Wealthseed

Toronto, ON

- Collaborating with a team to build a financial literacy platform that educates users on personal finance.
- Built secure and scalable **RESTful API** endpoints to manage student-teacher access using **Next.js**, **PostgreSQL**, and **TypeScript**, improving data integrity and user experience across the platform.
- Built and secured an API endpoint for profile updates using **Next.js** and **PostgreSQL**, incorporating token-based session validation and permission checks to ensure data integrity across user tables.

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%**.

PROJECTS

🔗 **LocateAble (UofTHacks 12)** | *React, PostgreSQL, Gemini API, Google Maps API, Python, Supabase, Flask*

- Developed a **web application** that allows users to rate locations based on their accessibility for disabled people.
- Integrated location-based services using the **Google Maps API** for visualization and the **Gemini API** to fetch query-relevant locations.
- Designed and implemented a **PostgreSQL** database with normalized schemas to efficiently store user ratings and location data, enabling fast and reliable data retrieval.
- Used **Supabase** for user authentication and **Flask** to create a **RESTful API** for the backend.

🔗 **HeriTrace (DeerHacks IV)** | *React, Vite, OpenAI API, Typescript*

- Developed a **web application** that allows users to learn about their ancestry based on their name.
- Built a feature that provides users with historical and cultural insights about their names by leveraging **OpenAI's** language understanding capabilities.
- Implemented a **React** frontend with **Vite** for faster development and **Typescript** for type safety.
- Integrated **StableDiffusion** to generate personalized cultural imagery representing the user's ancestral heritage and name origin.

🔗 **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.
- Used a confusion matrix to check the efficacy of the model.
- Achieved an accuracy of **79%**, a weighted precision of **78%**, a **weighted recall** of **79%**, and an **weighted f1-score** of **78%**.

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

- Developed salary predictor using **exploratory data analysis**, **Linear Regression** and **Random Forest** models to forecast earnings from mixed data types.
- 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, C++, Assembly, JavaScript, SQL, Typescript

Developer Tools: Agile, Git, Visual Studio Code, JetBrains IDEs, CPULator, PostgreSQL, pgAdmin

Frameworks & Libraries: React, Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, Transformers, Scikit-learn, spaCY, Seaborn, JavaFX