Zikora Chinedu

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EDUCATION

University of Toronto   Sep. 2023 – Jun. 2027
*Honours BSc. in Computer Science, Minor in Mathematics and Statistics | **GPA: 3.71/4.0***

EXPERIENCE

Software Engineering Intern   May. 2025 – Aug. 2025
Ontario Public Service   *Toronto, ON*
- Helped develop a **social networking platform** enabling OPS employees to share ideas and collaboratively address service challenges affecting Ontarians.
- Developed responsive **React TypeScript** frontend components including user dashboard, post creation interface, and notification system with **Tailwind CSS** styling.
- Streamlined administrative operations by creating comprehensive super admin interface using **Express.js** REST APIs with **PostgreSQL/Drizzle** ORM, reducing manual oversight time by 50%.

Founding Engineer   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.
- Engineered **real-time notification system** with conditional rendering and state management, reducing page load times by **25%** and improving user engagement.

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.

⬀ Lumen (Terrahacks 2025 Winner) | *React, Vite, Gemini API, Typescript, MongoDB, Unity, Framer Motion*
- Developed Lumen, a mental wellness companion app that analyzes user emotions via **Gemini AI** and provides therapeutic mini-games for personalized emotional support and trend tracking.
- Developed **RESTful APIs** for emotion data collection, user analytics, and clinical reporting with comprehensive error handling.
- Architected and developed backend API services using **Node.js** and **TypeScript** with **MongoDB** integration for emotion tracking and analytics.
- Implemented **Unity WebGL** game integration with **React** using **react-unity-webgl** for the mini-games.

⊙ Trading Simulator | *Python, Pandas, Matplotlib, Scikit-learn, NumPy, React, Node.js, MongoDB, Python, Flask*
- Built **full-stack** stock trading simulator with **ML prediction engine** enabling users to test custom models against real-time market data.
- Implemented **multi-algorithm ML pipeline** with LSTM/RNN, Random Forest, XGBoost, and Q-Learning agents for 1-5 day stock price forecasting.
- Developed asynchronous **Flask API** with **MongoDB** integration and dynamic model loading supporting **TensorFlow** and **scikit-learn** formats.

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