Zikora Chinedu

✉ zikora.chinedu@yahoo.com | 🔗 linkedin.com/in/zikorachinedu | 🏠 zikorachinedu.com | ⚫ github.com/zikompo

EDUCATION

University of Toronto   Sep. 2023 – Jun. 2028
*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*
- Developed a collaboration platform for OPS employees with anonymous posting, AI-enhanced content improvement, and integrated project management tools.
- Architected responsive **React TypeScript** components with **Tailwind CSS**, improving platform usability through intuitive dashboard design and real-time notifications that enhanced user task completion efficiency.
- 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 – Sep. 2025
Wealthseed   *Toronto, ON*
- Led frontend development of financial e-learning platform, delivering comprehensive notification system, multi-role authentication, and responsive course management interface serving both students and teachers.
- Engineered authentication system using **NextAuth.js** with **JWT** sessions and **bcrypt** encryption, supporting role-based access control for students, teachers, and administrators across multiple schools.
- 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*
- Engineered full-stack accessibility rating platform integrating **Google Maps** and **Gemini APIs**, enabling crowdsourced location accessibility data with normalized **PostgreSQL** database design.
- 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.
- Architected backend API services using **Node.js** and **TypeScript** with **MongoDB** for emotion data collection, user analytics, and clinical reporting with comprehensive error handling.
- 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, Typescript, SQL, Bash
ML/AI Frameworks: PyTorch, TensorFlow, Transformers, Scikit-learn, spaCY, Pandas, NumPy, Matplotlib, Seaborn
Web Frameworks & Libraries: React, Node.js, Flask, Express.js
Developer Tools: Agile, Git, PostgreSQL, MongoDB, Jupyter Notebook