

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: 3.71/4.00**

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

EXPERIENCE

Software Engineering Intern

May. 2025 – Aug. 2025

Ontario Public Service

Toronto, ON

- Developed a collaboration platform **serving 400+ OPS employees**, implementing anonymous posting and AI-powered content enhancement that **increased post engagement by 40%** in user testing.
- Built **15+** responsive React/TypeScript components with Tailwind CSS, optimizing performance through lazy loading and memoization to achieve **93% Lighthouse score** and **sub-2-second load times**.
- Streamlined administrative operations by creating a 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 (Startup)

Toronto, ON

- Developed frontend of a financial e-learning platform, delivering a comprehensive notification system, multi-role authentication, and a responsive course management interface serving students and teachers.
- Implemented an authentication system using NextAuth.js with JWT sessions and bcrypt encryption, supporting role-based access control for students, teachers, and administrators across multiple schools.
- Created a 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, Python, Supabase, Flask

Jan. 2025

- Engineered full-stack accessibility rating platform integrating Google Maps and Gemini APIs, enabling crowdsourced location accessibility data with normalized PostgreSQL database design.
- Integrated location services with Google Maps for visualization and the Gemini API to pull location data.
- Built a normalized PostgreSQL schema for ratings and location data, enabling fast, reliable queries.
- Used Supabase for user authentication and Flask to create a RESTful API for the backend.

Lumen (Terrahacks 2025 Winner) | React, Vite, Typescript, MongoDB, Unity, Framer Motion

Dec. 2025

- 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.
- Built 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 Web App | React, Node.js, MongoDB, Python, Flask

Jan. 2025 - Apr. 2025

- Let a team of 3 people to build a full-stack stock trading simulator with an ML prediction engine enabling users to test custom models against real-time market data.
- Built an ML pipeline with LSTM/RNN, RF, XGBoost, and Q-learning for 1–5 day stock forecasts.
- Built an async Flask API with MongoDB and dynamic model loading for TensorFlow and scikit-learn.

TECHNICAL SKILLS

Languages: Python, HTML/CSS, Java, C, C++, JavaScript, Typescript, SQL

ML/AI Frameworks: PyTorch, TensorFlow, Scikit-learn, spaCY, Pandas, NumPy, Matplotlib, Seaborn

Web Frameworks & Libraries: React, Node.js, Flask, Express.js, Vite

Developer Tools: Agile, Git, PostgreSQL, MongoDB, Jupyter Notebook