

ZIKORA CHINEDU

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EDUCATION

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

Software Engineering Intern <i>Ontario Public Service</i>	May. 2025 – Aug. 2025 Toronto, ON
<ul style="list-style-type: none">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 <i>Wealthseed</i>	Jan. 2025 – Sep. 2025 Toronto, ON
<ul style="list-style-type: none">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) <i>React, PostgreSQL, Gemini API, Google Maps API, Python, Supabase, Flask</i>	<ul style="list-style-type: none">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) <i>React, Vite, Gemini API, Typescript, MongoDB, Unity, Framer Motion</i>	<ul style="list-style-type: none">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 <i>Python, Pandas, Matplotlib, Scikit-learn, NumPy, React, Node.js, MongoDB, Python, Flask</i>	<ul style="list-style-type: none">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