Ken Wu

(647)-918-1903 | ken.wu4314@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

University of Waterloo   Waterloo, ON
Computer Science and Finance   *Sep 2023 – May 2028 (Expected)*

TECHNICAL SKILLS

Languages: Python, C, C++, Java, Javascript, HTML, CSS, Racket, Dart
Developer Tools: Git, Docker, AWS, Azure, Google Cloud SDK, BigQuery, Jupyter Notebook
Technologies: Kubernetes, MongoDB, REST api, Vertex AI, OpenAI, VectorDB, pandas, NumPy, Streamlit

EXPERIENCE

Geotab   January 2025 - Present
Agent Platform Developer   *Toronto, ON*

- Collaborated with a team of four to create state-of-the-art generative **AI agents** to automate internal tasks.
- Developed a cost-saving agent using Vertex AI and Gemini 1.5 Pro to **optimize real-time CPU core usage** in Google Cloud saving Geotab **over $2,000** of costs daily.
- Engineered the Superset agent to leverage **metadata indexing in RAG**, significantly enhancing data retrieval accuracy and response times **by 30%**, thereby improving overall system performance
- Researched and implemented robust frameworks for generative AI agents, ensuring **scalability and maintainability**.
- Designed and implemented efficient data pipelines to streamline the flow of information between various components of the AI system, ensuring seamless data processing and integration

Microsoft - Azure & Artificial Intelligence   May 2024 – August 2024
Project Team Member   *Waterloo, ON (Remote)*

- Collaborated with 4 group members to create a working prototype of a financial investment coach using **Azure AI** and various Azure services including Azure Bot Services and **Azure Web Services**.
- Collaborated with industry professionals to successfully deliver a **production-level** product, combining strategic planning, cross-team coordination, and effective communication

PROJECTS

Coinbase Algorithmic Trader | *Python, MongoDB, REST, Docker, Pandas, Prophet*   April 2024 - Present
- * Developed a **full-stack** algorithmic trading application using **Agile methodologies** and Advanced Python API and **RESTful** web services provided by Coinbase with **20+ daily users** reaping approximately **0.2% daily returns**
- * Developed a stock advisor bot by integrating Telegram's API and deployed the bot using **Docker**. Released the bot on **Streamlit's community cloud** using a **CI/CD pipeline**, enhancing accessibility and user engagement
- * Trading algorithm leverages **quantitative analysis** and **artificial-intelligence** driven predictions to inform trading strategies.
- * Trades are logged into **MongoDB**, logging **1000+** transactions per day.

Poker Ledger | *Javascript, Node.js, Express, HTML/CSS, Bootstrap, Microsoft Azure*   June 2024 – July 2024
- * Developed a **full-stack** ledger web application using **Node.js** and **Bootstrap** to optimize repayment of players after poker games.
- * Published application to the web using **Microsoft Azure Web services** and Streamlit Community Cloud, gaining **50+ weekly users** highly satisfied in the user experience.
- * Implemented auto-payments using **Paypal's API** to instantaneously repay users the amounts in each session.