Ken Wu

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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, Amazon Web Services, Microsoft Azure, GitHub, Bash
Technologies: MongoDB, pandas, NumPy, Matplotlib, OpenCV, yFinance, Streamlit

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.
- 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 **200+** transactions and signals 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.

Python Robo Advisor | *Python, Jupyter Notebook, yFinance, Numpy, Pandas*   October 2023 - December 2023
- Crafted a sophisticated tool that tailors investment portfolios to align with unique investor profiles and preferences. This innovative solution streamlines the portfolio creation process, ensuring a **personalized investment strategy**.
- Executed an exhaustive analysis of **over 100 securities** utilizing **Pandas** dataframes. Security analysis includes **Beta volatility** calculations and **Sharpe ratio**, creating portfolios supported by a robust statistical foundation.

EXPERIENCE

Microsoft - Azure & Artificial Intelligence   May 2024 – August 2024
Project Team Member   *Waterloo, ON (Remote)*
- Completed certification courses for Microsoft Azure Cloud and Microsoft Azure AI.
- 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