Ken Wu

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EDUCATION

University of Waterloo — Sept. 2022 – Apr. 2026
Bachelor of Computer Science, Business Specialization, Philosophy Minor — *Waterloo, ON*

SKILLS

Languages: Python, SQL, C, C++, Typescript, Javascript, HTML, CSS, Racket
Technologies: LangChain, Tensorflow, Keras, spaCy, Pandas, NumPy, MongoDB, Streamlit, Git, Bash, Flask, Selenium

EXPERIENCE

Supply Chain Analyst — Jan 2024 – Apr 2024
Saputo | Excel, TypeScript, Office Script, AS400 — *Georgetown, Canada*
- Developed automation script using TypeScript processing more than **2500 product codes** across Canada

Program Coordinator — Mar 2023 – Present
Laurier Fintech | Python, SQLite, MySql, MongoDB, Flask, Django, Alphavantage API — *Waterloo, Canada*
- Developed **OpenFintech** ↗, enabling custom high-frequency algorithm creation for users
- Employed Python, Flask, Django, database technologies (SQLite, MySQL, MongoDB), and Alphavantage API
- Significantly improved trading strategy development and democratizing access to advanced trading algorithms

Software Development Engineer — Mar 2023 – Jun 2023
Keywords AI | Python, spaCy, SQLite, OpenAI API — *New York, United States*
- Developed a resume-parsing script extracting recruiting information from **1000+** resumes
- Managed **12 interns** in data labeling and prompt engineering, increasing model accuracy and performance
- Leveraged spaCy, and OpenAI API for NER development and enhanced query efficiency using SQLite for caching

Machine Learning Engineer Intern — Jul 2022 – Sept 2022
delphai | Python, spaCy, Azure, Prodigy, WanDB — *Berlin, Germany*
- Developed a NER model identifying company names in Chinese, expanding business to Chinese companies
- Utilized spaCy, Azure, and WanDB for model development and performance tuning, achieving **70%** recall
- Labeled **2,000** instances for model training, significantly improving the model's recognition capabilities

PROJECTS

LeaseEase ↗ | *Python, LangChain, Streamlit, OpenAI API, Cohere API, ChromaDB* — Jan 2024
- **Winner of McHack 2024 Telus Environmentally and Socially Sustainable Future Prize**
- Integrated complex data handling and UI solutions to streamline the legal aid process
- Spearheaded the integration of LangChain Agents with Streamlit and ChromaDB, enhancing the platform's functionality and user experience, thereby making legal assistance more accessible

MedChat ↗ | *Python, Cohere API, Streamlit, Tensorflow, OpenCV* — Nov 2023
- **Winner of 2023 Cohere RAG (Retrieval Augmented Generation) Challenge**
- Employed Tensorflow, OpenCV, and RAG for dynamic information retrieval and CNN for medical image analysis
- Improved diagnostic accuracy and patient engagement by efficiently generating citations from over **1,000 WebMD pages**, paving the way for collaboration with Health Canada to expand application uses

DirectU ↗| *Python, Flask, Cohere API, MongoDB, React, Selenium* — Sep 2023
- **Winner of Hack the North 2023 Best Use of Cohere Prize**
- Implemented Python, Flask, and the Cohere API for text embedding, combined with MongoDB and React for a responsive web interface, achieving a **99%** reduction in loading time
- Enhanced student academic planning by providing personalized course recommendations, significantly improving user experience and engagement with academic resources

ORGANIZATIONS

Team Project Manager **@Wat.ai**: Medical RAG Agent | Software Engineer **@MIT-PITT-RW**: Camera Projection