Wendong Li

(647) 233-7096 | rethebrewmaster@gmail.com | [Website](#) | [LinkedIn](#) | [Github](#) |

Education

University of Toronto	**Toronto, Canada**
M.Eng., Computer Engineering	Jan. 2024 - Jun. 2025
Beijing University of Posts and Telecommunications	**Beijing, China**
B.Eng., Software Engineering	Sep. 2019 - Jun. 2023

Technical Skills

Python, JavaScript, Java, Machine Learning, Deep Learning, MLOps, LLM Agent, PySpark, Azure, Git, Github, Flask, Django, MySQL, PyTorch, Mlflow, Microsoft Fabric, Databricks, Video Encoding, Audio Processing, Databricks

Work Experience

Microsoft   **Beijing, China**
Software Engineer Intern   Feb. 2023 - Dec. 2023

· **Benchmarked** AutoML solution between **Azure Machine Learning** and **Azure Databricks**, evaluated performance and efficiency, analyzed user experience from different user aspects.
· Contributed to the open-source **AutoML** and **Hyperparameters Optimization** library **FLAML** on **Github**.
· Initiated the internal version of FLAML for **Microsoft Fabric** and contributed **100+ PRs**.
· Enlarged Machine Learning model pool for AutoML by adding 15+ Machine Learning models based on **PyTorch Lightning**, **PySpark MLlib**, **Statsmodel** and **Scikit-Learn**.
· Integrated multiple **MLOps** services of Fabric platform **MLFlow** to FLAML, including ML experiment tracking, management, analysis, visualization, artifacts logging and model deployment.
· Developed Autonomous Feature Engineering combining with **LLM Agent**, utilizing **AutoGen** project.

Call Fusion   **Toronto, Canada**
Research Software Engineer   Sep. 2024 - Present

· Redesigned the technical architecture, migrating to an **Audio Agent** using **OpenAI's Real-time API**, creating an end-to-end Speech-to-Speech generation solution with features like scheduling future calls and ETL for client information.
· Researched and integrated advanced audio processing techniques, such as noise reduction using the neural network-based algorithm **RNNoise** and external solutions like **Dolby IO**, and voice activity detection using **WebRTC**.

National University of Singapore   **Singapore**
Undergraduate Research Assistant   Apr. 2022 - Feb. 2023

· Participated in a research project focusing on **Event Forecasting** with **Temporal Knowledge Graph** at the NExT++ Centre, School of Computing.

Side Projects

D2Helper

Full-Stack Web Application for Destiny 2

· A Destiny 2 information and tracking tool with a **4,000+** user base.
· Built a modern user interface using **JavaScript** and **CSS**. Implemented **RESTful API** backend service using **Flask** with **MySQL** cloud database. Used **Docker** for deployment on Tencent Cloud's **Serverless** Application.

AutoGen

A programming framework for Agentic AI

· Active contributor of this **25,000+** stars open-source project, reviewed and proposed multiple PRs.
· Integrated **Anthropic Claude** models as alternative foundation model for LLM Agent.
· Social cognitive science simulation, using multi-agent conversation and **RAG** with **Knowledge Graph**.