

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

Education

University of Toronto

M.Eng., Computer Engineering

Toronto, CA

Jan. 2024 - Apr. 2025(Expected)

Beijing University of Posts and Telecommunications

B.Eng., Software Engineering

Beijing, CN

Sep. 2019 - Jun. 2023

Technical Skills

Programming Language: Python, JavaScript, TypeScript, Java, C++, Solidity, OOD

Frameworks and Tools: Linux, CI/CD, Git, Azure, AWS, GCP, PySpark, Flask, Django, MySQL, Node.js, Databricks

AI&ML: MLOps, LLM Agent, PyTorch, Tensorflow, MLflow, GNN, Transformer, Huggingface, XGBoost, LightGBM, Time-series

Domain Knowledge: Multimedia Encoding, Distributed System, Blockchain(Smart Contract and DApp), Parallel Computing

Experience

Call Fusion

Machine Learning Engineer

Toronto, CA

Sep. 2024 - Present

Backend Services and Audio LLM Agent, [Live Demo Website](#)

- Integrated **RNNoise**, a neural network-based noise-reduction algorithm, boosting **transcription accuracy** by **13%**.
- Evaluated and migrated from **Faiss** to **ChromaDB** for Retrieval-Augmented Generation (RAG), **improving retrieval performance** by **16%**, **reducing peak latency by 96%**.
- Used **Celery** to schedule database updates, serving on **AWS Elastic Beanstalk** to improve stability and availability.

Microsoft

Software Engineer Intern

Beijing, CN

Feb. 2023 - Dec. 2023

FLAML, an Automated Machine Learning (AutoML) Library

- Contributed to the design and led the development of an internal version of FLAML for the **Microsoft Fabric** platform.
- Authored **articles** to help data scientists onboard this **Python** library, **user number increased by 263%** after internship.
- Benchmarked AutoML solutions against **Azure Machine Learning (AML)** and **Azure Databricks**; FLAML on Fabric achieved **30× faster runtimes** than AML and a **16%** average performance improvement over Azure Databricks.
- Expanded AutoML model pool by adding **15+** models (**PyTorch Lightning**, **PySpark MLlib**, **Statsmodels**, **Scikit-learn**).
- Integrated multiple **MLOps** services (experiment tracking, visualization, artifact logging, model version control and serving) with custom **MLflow** backend, reducing **inference latency** by **37%**.
- Developed an autonomous **feature engineering** module using **LLM Agent**, reducing human labor for data scientists by automating feature engineering experiments.

National University of Singapore

Undergraduate Research Assistant

Singapore, SG

Apr. 2022 - Feb. 2023

- Participated in a **Temporal Knowledge Graph** research project at School of Computing, NExT++ Research Centre.

Projects

AutoGen, A programming framework for Agentic AI

[Github Link](#)

- Contributed to **high-level system design** in an Agentic AI framework with **35k+ GitHub stars**.
- Early contributor to the **RAG** module, benchmarking various **vector databases** and integrating **ChromaDB**.
- Added support for **Anthropic Claude** models as an alternative foundation model for LLM Agents.

D2Helper, A Full-Stack Web Application for Destiny 2

- Developed a **full-stack** web application for the Destiny 2 community with **4000+** active users.
- Built frontend with **JavaScript and CSS**; implemented a **RESTful** backend with **Flask** and a **MySQL** cloud database.
- Deployed via **Docker** on Tencent Cloud's **Serverless** platform.