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

## **Education**

**University of Toronto** 

Toronto, CA

M.Eng., Computer Engineering

Jan. 2024 - Apr. 2025(Expected)

**Beijing University of Posts and Telecommunications** 

Beijing, CN

B.Eng., Software Engineering

Sep. 2019 - Jun. 2023

### **Technical Skills**

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

**Frameworks and Tools**: Linux, CI/CD, Git, Azure, AWS, GCP, PySpark, Flask, Django, MySQL, Microsoft Fabric, 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**

Microsoft Beijing, CN

Software Engineer Intern

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.

Call Fusion Toronto, CA

Machine Learning Engineer

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.

## **National University of Singapore**

Singapore, SG

Undergraduate Research Assistant

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 Al

**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.