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

Education

University of Toronto

Toronto, CA

M.Eng., Computer Engineering

Jan. 2024 - Apr. 2025(Expected)

Relevant Courses: Distributed System in Moden Web-Scale Applications, Video Encoding, Blockchain Development, Al Alignment, Natural Language Processing Application.

Beijing University of Posts and Telecommunications

Beijing, CN

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, Multimedia Encoding, Distributed System.

Work Experience

Microsoft Beijing, CN

Software Engineer Intern

Articles on Microsoft Learn

Feb. 2023 - Dec. 2023

- · Contributed to **FLAML**, Microsoft's open-source **Automated Machine Learning** (**AutoML**) library, initiated an internal version for the **Microsoft Fabric** data platform. Submitted **100+ PRs**, driving a **263% increase** in user adoption.
- Expanded AutoML model candidate pool by adding 15+ Machine Learning models (PyTorch Lightning, PySpark MLlib, Statsmodels, Scikit-learn).
- Integrated multiple **MLOps** services (experiment tracking, visualization, artifact logging, deployment) with custom **MLflow** backend, reducing **inference latency** by **37**%.
- · Developed the **first-ever autonomous feature engineering** module using **LLM Agent** within an AutoML library.
- Benchmarked AutoML solutions against **Azure Machine Learning Studio** and **Azure Databricks**; FLAML on Fabric achieved **30× faster runtimes** and a **16%** average performance improvement over competing solutions.

Call Fusion Toronto, CA

Research Software Engineer

Try our Demo

Sep. 2024 - Present

- Redesigned the technical architecture for an Audio LLM Agent using OpenAl's Real-time API, reducing end-to-end speech-to-speech reply latency by 52%.
- · 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 96% of peak cases.

National University of Singapore

Singapore, SG

Undergraduate Research Assistant

Apr. 2022 - Feb. 2023

· Collaborated on an **Event Forecasting with Temporal Knowledge Graph** project at the NExT++ Centre, focusing on research design and implementation.

Side Projects

AutoGen, A programming framework for Agentic Al

- · 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 4,000+ 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.