Ting-Yu Liang

+886 906306292 tylapp0116@gmail.com https://www.linkedin.com/in/ting-yu-liang/

EDUCATION

University of Washington **Seattle, Washington**

Master of Science in Electrical and Computer Engineering *Sep. 2025 – Jun. 2027 (Expected)*

- Relevant Courses (Expected): Machine Learning Operations | Tiny Machine Learning for Ultra Low-Power Edge Computing | Applied High Performance GPU Computing | Distributed Systems

Hong Kong University of Science and Technology **Hong Kong**

Bachelor of Engineering in Computer Science, with Minor in Business *Sep. 2020 – Jun. 2024*

- Awards: First Class Honors (Top 10%), Dean's List * 3
- Exchange Program: National University of Singapore - School of Computing
- Relevant Courses: Artificial Intelligence | Search Engines for Web and Enterprise Data | Image Processing | Database Management Systems | Operating Systems | Design and Analysis of Algorithms

PROFESSIONAL EXPERIENCE

D8AI Inc. **Taipei, Taiwan**

Artificial Intelligence Engineer *Oct. 2024 – Apr 2025*

- Developed a Multi-Modal Retrieval-Augmented Generation (RAG) system with microservices architecture.
- Built an advanced indexing pipeline for structured and unstructured data, leveraging OCR, layout analysis, Vision-Language Models (VLMs), and embedding models for vector databases.
- Implemented the inference workflow, including retrieval, reranking, prompt engineering, and Llama integration.

JPMorgan Chase & Co. **Hong Kong**

Software Engineer Summer Analyst *Jun. 2023 – Aug. 2023*

- Developed a dashboard to improve data visibility, enhance decision-making, and provide a better user experience.
- Improved trading chatbot features and leveraged sentiment analysis for news.
- Designed an all-in-one application that integrates internal service for employee usage.

Trend Micro Inc. **Taipei, Taiwan**

Software Development Engineer Intern *Jul. 2022 – Aug. 2022*

- Implemented a web crawler with Jira REST API to collect data.
- Developed a customer case support tracking model using Convolutional Neural Networks (CNNs) to improve troubleshooting efficiency with over 80% accuracy.
- Deployed machine learning model on AWS EC2/ECR with Flask and Docker.

SELECTED PROJECTS

Indoor Localization AI system

Independent Work (Supervisor: Prof. Gary Shueng Han CHAN) *Feb. 2024 – May 2024*

- Conducted research on Data-Driven and Sensor Fusion approaches for estimating indoor position and orientation.
- Implemented Recurrent Neural Network (RNN) to process and analyze IMU-based motion data.
- Integrated Kalman Filter to mitigate drift effects and improve positioning accuracy by 78%.

Utilizing Large Language Models for News-Based Event-Driven Trading

Final Year Project (Supervisor: Prof. David Paul ROSSITER) *May 2023 – May 2024*

- Developed an automated pipeline for collecting news data and leveraging the GPT-3.5 model to forecast price movements and generate systematic trading strategies.
- Built a web application using Flask that visualizes real-time price predictions and performance evaluation.
- Conducted live trading for one month that outperformed market indices.

SKILLS

Languages: Mandarin (Native), English (Proficient)

Programming: Python, C++, JavaScript, SQL, MATLAB

Technologies/Frameworks: React, Flask, FastAPI, AWS, Docker, Git, MySQL, TensorFlow, PyTorch, LangChain