

CHUN-JU TAO

(646) 894-7186 | ct3354@nyu.edu | [linkedin.com/in/chun-ju-tao-3b1485254/](https://www.linkedin.com/in/chun-ju-tao-3b1485254/) | <https://chun-ju.irilia.app/>

EDUCATION

New York University

MS, Computer Engineering (GPA: 3.73)

Sep 2024 - May 2026

New York, NY

- **Coursework:** Practical Software Engineering, Human Computer Interaction, ML, MLOps, Reinforcement Learning

National Taichung University of Science and Technology (NTCUST)

BEng, Computer Science and Information Engineering (CSIE) (GPA: 3.79)

Sep 2019 - Jun 2023

Taichung, Taiwan

SKILLS

- **Languages:** Python, Go, Java, C#, Swift, JavaScript, SQL (PostgreSQL, MS SQL), C/C++
- **Cloud & DevOps:** Docker, AWS, Terraform, GitHub Actions, Airflow, Prometheus, Grafana, Linux, Git/GitFlow
- **Frameworks & Backend:** FastAPI, Flask, Django, Node.js, React, Vue, RESTful APIs, WebSocket
- **Data & ML:** PyTorch, MLflow, LlamaIndex, LangChain, LightGBM, SHAP, Streamlit

EXPERIENCE

Micron Technology

Jul 2025 - Aug 2025

Data Science Intern

Taoyuan, Taiwan

- **Architected a production-scale Python pipeline** and self-serve Streamlit app over **33GB of bi-weekly fab-dispatch logs**, surfacing key scheduling drivers via an **explainable LightGBM/SHAP model** for reproducible, evidence-based tuning adopted across teams.
- Engineered repo-documentation tools for **an enterprise application with over one million lines of code** using Prompt Engineering and sub-task agents; **cut token usage 10x** and projected **~3x gain in developer efficiency**.

CARITY AI

May 2024 - Aug 2024

Software Developer

Ontario, Canada

- **Automated CI/CD for an LLM-based product** by containerizing 4 microservices on AWS ECS with GitHub Actions, **reducing infrastructure costs by 40%** and **cutting deployment time by 70%**.
- Delivered a **Retrieval-Augmented Generation (RAG)** proof-of-concept showing a potential **5x token-usage reduction**, shaping the team's cost-optimization roadmap.

MoBagel

Jan 2023 - Jul 2023

Software Engineer

Taichung, Taiwan

- Engineered a **full-stack material management system** for the Taiwan Water Corporation (national utility, 7M+ households), migrating its legacy Java application to automate inventory and budgeting over millions of historical records.
- **Introduced GitFlow and an Agile workflow** that scaled the engineering process as the team tripled from 10 to 30, enabling a smooth transition recognized by the supervising manager.
- Discovered and **reported critical security flaws**, including SQL-injection vectors and a publicly exposed, unauthenticated test database that risked a large-scale breach of decades of records.

Mindtronic AI

Jun 2022 - Sep 2022

Software Engineering Intern

Taipei, Taiwan

- **Rebuilt the entire backend in Go from a legacy Node.js service**, owning 53 RESTful APIs end to end (design, implementation, and SQL-injection hardening) while reliably processing 480K+ entries weekly.

PROJECTS

NYU Marketplace | Practical Software Engineering

Sep 2025 - Dec 2025

Advisor: Professor Gennadiy Civil (Adjunct, Senior Engineering Manager at Google), New York University

New York, NY

- **Architected a CI/CD pipeline** on Travis CI and AWS Elastic Beanstalk with strict merge gates (linting, 85%+ test coverage), automating deployment on every approved PR.
- Built **scalable RESTful and real-time WebSocket APIs** with Django 5 and Channels, serving as lead code reviewer to enforce system design and clean code standards across the team.

Taigi (Taiwanese-Hokkien) Medical Advising LLM | MLOps

Mar 2025 - May 2025

New York University

New York, NY

- Architected a **cloud-native MLOps platform** on Terraform (IaC) with Dockerized microservices (FastAPI, Gradio, MinIO) and an Airflow continuous-training pipeline for human-in-the-loop retraining, with Prometheus/Grafana observability.

HONORS

- **1st Prize & Best Demo**, OpenHCI'25, 11th Annual TAICHI Conference, Taipei, Taiwan
- **Emerging Technology Application Award**, Fi-Award 2023, 13th Intl. Conf. on Frontier Computing, Tokyo, Japan