

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/) | iridiumtao.github.io/

EDUCATION

New York University

Sep 2024 - May 2026

MS, Computer Engineering (GPA: 3.73)

New York, NY

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

National Taichung University of Science and Technology (NTCUST)

Sep 2019 - Jun 2023

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

Taichung, Taiwan

- **Coursework:** Algorithms, Data Structures, Computer Networks, Electronic Commerce Security

SKILLS

- **Languages:** Python, JavaScript (React, Vue), Go, Java, C#, Swift, MS SQL, PostgreSQL, C
- **Cloud & DevOps:** Docker, AWS ECS, Terraform, GitHub Actions, Airflow, Prometheus, Grafana, MinIO, Git, Linux
- **Data & ML:** PyTorch, MLflow, LlamaIndex, Lang Chain, LightGBM, SHAP, Streamlit, FastAPI

EXPERIENCE

A Day - AI-Powered Personal Management iOS App

May 2025 - Present

Co-Founder

New York, NY

- Architected a **production-grade MVVM application** with *SwiftData* and *latest SwiftUI features*, decoupling the service layer to ensure strict separation of concerns across 7 interconnected data models and 60+ source files.
- Engineered a modular AI preference system with primitive-type data storage, optimizing the schema for native **CloudKit** compatibility to ensure seamless cross-device synchronization and future scalability.
- Established a **CI/CD Pipeline** with a rigorous **QA framework** using *Swift Testing*, implementing **700+ unit and integration tests** to guarantee architectural integrity and regression prevention across ViewModels and data flows.

Micron Technology

Jul 2025 - Aug 2025

Data Science Intern

Taoyuan, Taiwan

- 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 developer efficiency**.

CARITY AI

May 2024 - Aug 2024

Software Developer

Ontario, Canada

- Automated CI/CD for an LLM-based product, containerizing 4 microservices on *AWS ECS* with *GitHub Actions*, **reduced infrastructure costs by 40%** and **cut deployment time by 70%**.

MoBagel

Jan 2023 - Jul 2023

Software Engineering Intern

Taichung, Taiwan

- **Established GitFlow and an Agile development model for a 10-person team**, fostering a culture of collaboration that improved development efficiency and stabilized team management during a 300% expansion.

I.M.A.C. Lab, NTCUST

Jun 2020 - Feb 2021

iOS Developer, Advisor: Professor Hung-Ming Chen

Taichung, Taiwan

- Designed a weather application **utilizing Swift UI with MVVM architecture**, integrating weather APIs, Realm database for local storage, and MapKit for location-based services.

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

- Engineer a full-stack web app with **industry-standard CI/CD, 90%+ testing coverage**, and deploy to *AWS EB*.

Real-Time Plant Health & Mood Visualization - Loud Plants in Your Area

Feb 2025 - May 2025

New York University

New York, NY

- Initiated and led the end-to-end development of **a novel iOS application** that translates plant bio-acoustic signals into real-time, **AR visualizations**, defining the project vision and architecting the full technology stack.
- Designed an end-to-end ML pipeline (ScatNet, Morlet wavelets, MFCCs, SVM) to classify plant status from sensor signals, independently implemented and tuned core modules, and collaborated cross-functionally on UI/UX and conducted A/B user studies to validate impact on user behavior and product engagement.

HONORS

- **1st prize & Best Demo:** OpenHCI'25, presented at the 11th Annual TAICHI Conference, Taipei, Taiwan, 2025
- **Winner of Better Retail:** Level-Up Society Hackathon, organized by ShowCode, UK, 2021