

CHUN-JU TAO

(646) 894-7186 | ct3354@nyu.edu | linkedin.com/in/chun-ju-tao-3b1485254/ | iridiumtao.github.io/

EDUCATION

New York University

MS, Computer Engineering (GPA: 3.83)

Sep 2024 - May 2026

New York, NY

- **Coursework:** ML, MLOps, High-Performance ML, Reinforcement Learning, Software Engineering, Network Security

National Taichung University of Science and Technology (NTCUST)

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

Sep 2019 - Jun 2023

Taichung, Taiwan

- **Coursework:** Deep Learning, Algorithms, Data Structures, Computer Networks

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

Micron Technology

Data Science Intern

Jul 2025 - Aug 2025

Taoyuan, Taiwan

- **Architected a production-scale Python pipeline** and Streamlit web app for fab-dispatch analysis, processing 2 weeks' logs (33GB) and delivering a self-serve interface for parameter tuning and rich visuals, enabling fast, reproducible studies and broad cross-team adoption.
- **Developed an explainable LightGBM simulation proxy** with SHAP analysis for lot-level decision tracing, enabling evidence-based simplification of scheduling parameters by quantifying which factors truly drive selection and reducing tuning overhead for production engineers.

CARITY AI

May 2024 - Aug 2024

Ontario, Canada

Software Developer

- 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%**.
- Delivered a Proof-of-Concept using Retrieval-Augmented Generation (RAG), demonstrating a **potential 5x reduction in token usage** and influencing the team's future technical roadmap for cost optimization.

MoBagel

Jan 2023 - Jul 2023

Taichung, Taiwan

Software Engineering Intern

- **Re-architected and migrated a legacy Java system to a modern .NET stack (C#, Vue.js)** for a critical government inventory system managing assets worth trillions, enhancing performance, security, and scalability.

Mindtronic AI

Jun 2022 - Sep 2022

Taipei, Taiwan

Software Engineering Intern

- **Spearheaded a backend migration from Node.js to Go** from the ground up to enhance system security and processing efficiency, **owning 53 RESTful APIs processing 480k+ weekly entries**.

PROJECTS

Taigi (Taiwanese-Hokkien) Medical Advising LLM

Mar 2025 - May 2025

New York, NY

New York University

- **Architected a cloud-native MLOps platform** for LLM using Terraform for Infrastructure as Code (IaC), and deployed a suite of Docker-based microservices (FastAPI, Gradio, MinIO) to production.
- **Orchestrated a Continuous Training (CT) pipeline** with Airflow for human-in-the-loop retraining, and established system observability using Prometheus and Grafana.

AI Editor-in-Chief and Virtual News Presenter

Sep 2021 - Jul 2023

Taichung, Taiwan

NTCUST

- **Engineered the core system infrastructure** to resolve critical dependency and versioning conflicts **across 5 disparate open-source microservices**; designed and implemented a **resilient data pipeline** using Docker Compose and Flask to ensure system integrity and enable scalable future development.
- **Automated the end-to-end deployment process** for the entire stack, creating a reproducible, one-command build that **slashed manual setup and deployment time by over 80% (from 2 hours to 20 minutes)**.

HONORS

- **Emerging Technology Application Award:** Fi-Award 2023 by the 13th International Conference on Frontier Computing, Tokyo, Japan, 2023
- **Winner of Better Retail:** Level-Up Society Hackathon, organized by ShowCode, UK, 2021