CHUN-JU TAO

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EDUCATION

New York University   **Sep 2024 - May 2026**
MS, Computer Engineering (GPA: 3.83)   New York, NY
- **Coursework:** Practical 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 (Flask, PyTorch), JavaScript (React, Vue), Go, Java, C#, Swift, MS SQL, PostgreSQL, C
- **Cloud & DevOps:** Docker, AWS ECS, AWS EB, Travis CI, Git, GitHub Actions, Terraform, PyCharm, macOS, Linux

EXPERIENCE

Micron Technology   **Jul 2025 - Aug 2025**
Data Science Intern   *Taoyuan, Taiwan*
- **Architected a production-scale Python analytics pipeline** and Streamlit web app to analyze **33GB of fab-dispatch logs**, delivering a self-serve interface that enabled evidence-based scheduler tuning via an **explainable LightGBM/SHAP proxy** with **data visualization** and drove rapid, reproducible studies 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 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%**.
- 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**
Software Engineering Intern   *Taichung, Taiwan*
- Engineered **a critical full-stack material management system** for the Taiwan Water Corporation by migrating its legacy Java application, automating inventory and budgeting **for government assets valued in the trillions**.
- **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.
- Proactively identified and **reported critical vulnerabilities**, preventing potential large-scale data breaches.

Mindtronic AI   **Jun 2022 - Sep 2022**
Software Engineering Intern   *Taipei, Taiwan*
- **Architected the entire *Go* backend from scratch**, migrating the service from Node.js, boosting performance and hardening all 53 RESTful APIs against SQL injection while processing **480k+ weekly entries**; extended a React frontend with dashboards, video streaming, and real-time vehicle tracking.

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, automated testing**, and weekly deployments on *AWS*.

Taigi (Taiwanese-Hokkien) Medical Advising LLM | MLOps   **Mar 2025 - May 2025**
Advisor: Professor Fraida Fund, New York University   *New York, NY*
- **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.

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