CHUN-JU TAO

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EDUCATION

New York University, New York, NY   May 2026
MS in Computer Engineering, GPA 3.83
Relevant Coursework: ML, MLOps, Reinforcement Learning, Software Engineering, Network Security

National Taichung University of Science and Technology (NTCUST), Taichung, Taiwan   June 2023
BEng in Computer Science and Information Engineering (CSIE), GPA 3.79
Relevant Coursework: Deep Learning, Algorithms, Data Structures, Computer Networks

SKILLS

Languages: Python, Go, JavaScript (React, Vue), SQL (MS SQL, PostgreSQL), Java, C#, Swift
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

PROFESSIONAL EXPERIENCE

Data Science Intern, **Micron Technology,** Taoyuan, Taiwan   July 2025 - August 2025
- Designed 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.
- Built 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.

Software Developer, **CARITY AI,** Ontario, Canada   May 2024 - August 2024
- Containerized 4 microservices of an existing LLM pipeline product and automated CI/CD with GitHub Actions on AWS ECS, reducing infrastructure costs by 40% and deployment time by 70%.
- Conducted research in implementing Agentic RAG with LlamaIndex, cutting token usage 5x, boosting model efficiency, lowering costs, and enabling complex question-answering.

Software Engineering Intern, **MoBagel,** Taichung, Taiwan   January 2023 - July 2023
- Collaborated with an existing team to develop a full-stack material management system for the government-owned Taiwan Water Corporation, automating budgeting and inventory of assets worth trillions.
- Established GitFlow and an Agile-like development model for a 10-person team, fostering a culture of collaboration that improved development efficiency and stabilized team management during a 300% expansion.

PROJECT

Taigi (Taiwanese-Hokkien) Medical Advising LLM, **New York University,** New York, NY   March 2025 - May 2025
Advisor: Professor Fraida Fund
- Built a cloud-native MLOps stack (Terraform GPU/CPU nodes, Docker-based microservices with FastAPI/ Gradio/MinIO, Prometheus/Grafana) and developed a human-in-the-loop retraining pipeline using Airflow and Label Studio across canary, staging, and production nodes.
- Fine-tuned an 8B LLaMA-3.1 into the first Taigi medical advisor using 120K bilingual Q&A pairs with LoRA + mixed-precision on an A100 GPU; tracked all runs in MLflow for full reproducibility.

AI Editor-in-Chief and Virtual News Presenter, **NTCUST, Taichung, Taiwan**   September 2021 - July 2023
Advisor: Professor Jia-Wei Chang
- Leveraged Google Trends and natural language processing (CKIP Transformers, TextRank, TF-IDF, BERT) to find the trending topic for the week, and researched and designed the approach for compiling news articles
- Developed the system infrastructure and designed a pipeline with Docker and Flask for integrating five open-sourced repos into work for project integrity, data transferring efficiency, and future development possibilities

HONORS

Emerging Technology Application Award in 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   2021