CHUN-JU TAO

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

EDUCATION

New York University, New York, NY   May 2026
MS in Computer Engineering, GPA 3.78
Relevant Coursework: Internet Architecture & Protocol, Computing Systems Architecture, Machine Learning

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: Software Engineering, Electronic Commerce Security, Algorithms, Data Structures

SKILLS

Languages: Python, JavaScript (React, Vue), Java (Android), Go, Swift, MS SQL, PostgreSQL, C#, C
Computer Software and OS: PyCharm, AWS ECS, Docker, Xcode, pgAdmin, Git, macOS, Linux

PROFESSIONAL EXPERIENCE

Software Developer, **CARITY AI,** Ontario, Canada   May 2024 - August 2024
- Analyzed and containerized 4 microservices of an existing LLM pipeline product and developed a DevOps workflow with Docker, GitHub Actions, and AWS ECS for automatic deployment, auto-scaling, service down protection, and saving operational costs by 40%
- Conducted research in implementing Agentic RAG with LlamaIndex into an existing project, expected to reduce token usage by up to 5 times, improving model efficiency and reducing operational costs, and provide complex question-answering capabilities

Software Engineering Intern, **MoBagel,** Taichung, Taiwan   January 2023 - July 2023
- Collaborated with an existing team to develop a full-stack material management system for government-owned Taiwan Water Corporation, successfully automated material budgeting and inventory control, efficiently managing assets worth trillions of dollars
- 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
- Migrated the management system from an outdated Java 4 framework to the .NET framework using C#, Microsoft SQL, and Vue.js for improved performance, scalability, security, and modernized user experience

Software Engineering Intern, **Mindtronic AI,** Taipei, Taiwan   June 2022 - September 2022
- Designed and developed a back-end server with Golang, Python, and PostgreSQL to handle API requests, database access, file serving, and data organization for an in-vehicle product that analyzes driving behavior, vehicle conditions, and traffic conditions, efficiently processing over 480,000 data entries each week
- Developed new features for an existing React front-end project, such as dashboards for data visualization, video streaming, and real-time vehicle trajectory on a map
- Developed a real-time uploading application for ARM-based devices that provides fleet management companies with real-time driving status and video

PROJECT

Natural Language Process Lab, NTCUST, Taichung, Taiwan   September 2021 - July 2023
Advisor: Professor Jia-Wei Chang
Project: AI Editor-in-Chief and Virtual News Presenter
- 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
1st prize in **Project Competition** at the College of Information and Distribution Science, NTCUST   2023
Winner of Better Retail, **Level-Up Society Hackathon**, organized by ShowCode   2021