

Chi-Wei (Tomy) Hsieh

✉ cv@tomy.me

☎ (412) 584-1843

🌐 <https://tomy.me>

🔗 tomy0000000

🌐 tomy0000000

EDUCATION

Carnegie Mellon University

Master of Software Engineering - Scalable Systems

Pittsburgh, PA

Graduating December 2024

- Relevant Coursework: Introduction to Computer Systems, Cloud Computing, API Design, Design Patterns

National Chung Hsing University

Bachelor of Science in Computer Science

Taichung, Taiwan

June 2022

- Relevant Coursework: Algorithms, Introduction to Information Retrieval, Introduction to Reinforcement Learning

WORK EXPERIENCE

WeRide

Software Engineer Internship

San Jose, CA

May 2024 - August 2024

- Tripled the CI/CD pipeline's task capacity by revamping system architecture for optimal performance.
- Slashed deployment time by 80% by innovating new features and orchestrating chaining deployment workflows in Go.
- Fortified the company's cloud infrastructure by deploying sidecar service containers segregated in Kubernetes.
- Expanded the user base by 30% by designing and implementing highly intuitive and user-friendly features.

Intel

Software Engineer Internship

Taipei, Taiwan

July 2021 - December 2021

- Engineered and sustained a Django full-stack website for dynamic test report visualization.
- Accelerated the bug detection and resolution process by 70% by deploying an automated validation routine.
- Maximized system utilization by 80% by integrating time series models into a REST API backend platform built with FastAPI.
- Enhanced model accuracy by 12% by enforcing rigorous data validation in the data pipeline using Pydantic.

Natural Language Processing Lab, NCHU

Research Assistant

Taichung, Taiwan

July 2020 - November 2021

- Spearheaded the development of the NLP Lab API, a unified platform for research demonstration powered by FastAPI.
- Built and managed the Question Generation Platform, Querator AI, leveraging the NLP Lab API for seamless performance.

SKILLS

Programming Languages Python, Go, C/C++, Java, Shell/Bash

Frameworks Flask, Django, FastAPI, PyTorch, Gin

DevOps Linux/Unix, Docker, Kubernetes, Skaffold, Ansible, Terraform, Google Cloud, AWS, Azure

PROJECTS

Tubeec

- Constructed an automated YouTube subscription platform with Flask, PostgreSQL, and Docker
- Filtered favorite videos from 600+ new videos across 250 channels per day

tw-invoice + K

- Created and Engineered an SDK for exchanging data with Taiwan MoF e-Invoice platform, accelerated application development by incorporating built-in data-validating features
- Architected a spending tracking system to gather 300+ e-invoice data with the SDK

COMMUNITY EXPERIENCE

Event Staff, PyConDE & PyData Berlin - Berlin, Germany

April 2022

- Chaired and regulated rooms through 5 days annual Python community event

Head of Event Planning, YZU CI Orientation Camp - Taoyuan, Taiwan

June 2018 - August 2018

- Led an event planning team of 26 to deliver a 5-day event with 13 activities and over 300+ attendees

Head of Event Planning, AHSNCCU Pop Music Club - Taipei, Taiwan

September 2015 - July 2016

- Led a team of 5 to deliver a joint public presentation with three other clubs, attracting 1000+ audiences