Chi-Wei (Tomy) Hsieh

✉ cv@tomy.me 📞 (412) 584-1843 🌐 https://tomy.me tomy0000000 in tomy0000000

EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Master of Software Engineering - Scalable Systems   Graduating December 2024
- Relevant Coursework: Introduction to Computer Systems, Cloud Computing, API Design, Design Patterns

National Chung Hsing University   Taichung, Taiwan
Bachelor of Science in Computer Science   June 2022
- Relevant Coursework: Algorithms, Introduction to Information Retrieval, Introduction to Reinforcement Learning

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WORK EXPERIENCE

WeRide   San Jose, CA
Software Engineer Internship   May 2024 - August 2024
- Established security plan for the company-wide CI/CD pipeline platform used by 1,500+ engineers
- Implemented security features to protect the company's infrastructure from potential threats in Golang and Gin
- Maintained and improved the process management system to reduce deployment time by 80%

Intel   Taipei, Taiwan
Software Engineer Internship   July 2021 - December 2021
- Developed and maintained the Django Full-stack website for test report visualization
- Expedited bug spotting and fixing process 70% by launching an automated validation routine
- Increased system utilization 80% by launching time series models to REST API Backend platform built with FastAPI
- Boosted model accuracy 12% by implementing data validation on the data pipeline with Pydantic

Natural Language Processing Lab, NCHU   Taichung, Taiwan
Research Assistant   July 2020 - November 2021
- Designed and maintained secure, scalable ML experiment environments across 20+ on-premise servers
- Researched question generation quality enhancement based on BART, awarded honorable mention among 40+ contestants
- Initiated NLP Lab API, a unified platform for research demonstration with FastAPI
- Developed and maintained a Question Generation Platform, Querator AI, backed by the NLP Lab API

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

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PROJECTS

Tubee
- 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