

Chi-Wei (Tomy) Hsieh

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Software Engineering - Scalable Systems

Graduating December 2024

- Relevant Coursework: Introduction to Computer Systems, Formal Methods, Quality Assurance, API Design, Design Patterns, Cloud Computing

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

WORK EXPERIENCE

Intel

Taipei, Taiwan

Software Engineer Internship

July 2021 - December 2021

- Developed and maintained the Django Full-stack website for test report visualization
- Established a new debug workflow by integrating report system with JIRA
- Revitalized and redesigned UI, achieving an impressive user satisfaction rate of over 85%
- Expedited bug spotting and fixing process 70% by launching automated validation routine
- Increased system utilization 80% by launching time series model to REST API platform built with FastAPI
- Boosted model accuracy 12% by implementing data validation on 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

SKILLS

Programming Languages

Python, C/C++, Java, JavaScript/TypeScript, Shell/Bash

Frameworks

Flask, Django, FastAPI, PyTorch, HuggingFace, React, Next.js

Miscellaneous

Linux/Unix, Git, Docker, Ansible, Terraform, Google Cloud, AWS, Vercel

PROJECTS

Tube

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

NCHU NLP Lab API + Querator AI

- Initiated NCHU NLP Lab API, a unified platform for research demonstration at NCHU NLP Lab with FastAPI
- Upgraded a Question Generation web system with React and BART model and achieved over 80% reduction in instructors' workload

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