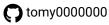
# Chi-Wei (Tomy) Hsieh







in tomy0000000

#### **FDUCATION**

## **Carnegie Mellon University**

Pittsburgh, PA

Master of Software Engineering - Scalable Systems

**Graduating December 2024** 

July 2021 - December 2021

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 Software Engineer Internship Taipei, Taiwan

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 Miscellaneous Flask, Django, FastAPI, PyTorch, HuggingFace, React, Next.js Linux/Unix, Git, Docker, Ansible, Terraform, Google Cloud, AWS, Vercel

**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

### 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