

Tomy (Chi-Wei) Hsieh

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EDUCATION

Carnegie Mellon University (CMU)

Master of Software Engineering

Graduating December 2024

Pittsburgh, PA, United States

National Chung Hsing University (NCHU)

Bachelor of Science in Computer Science

June 2022

Taichung, Taiwan

WORK EXPERIENCE

Software Engineer Internship

Intel Corporation, Chrome Team

July 2021 - December 2021

Taipei, Taiwan

- The *Debug Agile System*
 - Developed and maintained the **Django** Full-stack website for test report visualization
 - Rewrote and redesigned UI, achieving an impressive user satisfaction rate of over **85%**
- Machine Learning Engineering for *Canary Project*
 - Trained time series models for system failure detection with **sktime**
 - Elevated usability by serving models on RESTful API platform using **FastAPI**

RESEARCH EXPERIENCE

Research Assistant

Natural Language Processing Lab, NCHU

Advisor: Yao-Chung Fan

July 2020 - December 2021

Taichung, Taiwan

- Capstone Project: *Question Generation Quality Enhancement based on **BART***
- **Honorable Mention** of Departmental Capstone Project Contest among 40+ contestants
- Researched specific use cases and characteristics of **summarization** task

SELECTED PROJECTS

Explore [Project](#) site for more projects

YZU College of Informatics Orientation Camp

Chief Director of Event Planning / Full Stack Engineer

- Led an event planning **team of 26** to deliver a 5-day event with **13 activities** and over **300+ attendees**
- Designed [landing page](#) and registration system for the event
- Proposed and devised a [point system](#) utilized by 300+ attendees with **Laravel** and **MySQL**

Tube

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

Querator AI

- Created a Question Generation web system with **React** and **Transformers**
- Achieved over 80% reduction in instructors' workload for question-generation

Library Flow

- Collected visitor movement data using **Raspberry Pi** scattered throughout the library
- Deployed system to **Heroku** for 24/7 monitoring
- Implemented crowd statistics visualization with **Chart.js** and trend prediction based on Bluetooth signal

SKILLS

Explore [Project](#) site for more skillset

Programming Languages

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

Machine Learning

PyTorch, PyTorch Lightning, HuggingFace Transformers

Frontend

Bootstrap, React, Next.js

DevOps × Cloud

Docker, Ansible, Terraform, Google Cloud, AWS, Vercel, Heroku

Miscellaneous

Linux/Unix, Git, GNU Make, GitHub Actions