

# Tomy (Chi-Wei) Hsieh

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## EDUCATION

Carnegie Mellon University (CMU)

Graduating December 2024

Master of Software Engineering

Pittsburgh, PA

National Chung Hsing University (NCHU)

June 2022

Bachelor of Science in Computer Science

Taichung, Taiwan

- Graduate Capstone Project: Question Generation Quality Enhancement based on **BART**, awarded **Honorable Mention** among **40+** contestants

## WORK EXPERIENCE

Software Engineer Internship

July 2021 - December 2021

Intel Corporation, Chrome Team

Taipei, Taiwan

- 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%**
- 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

July 2020 - December 2021

Natural Language Processing Lab, NCHU

Taichung, Taiwan

- Designed and maintained a secure, scalable ML experiment environment across **20+** on-premise servers
- Initiated NLP Lab API, a unified platform for research demonstration with **FastAPI**
- Researched specific use cases and characteristics of **summarization** task

## SELECTED PROJECTS

Explore Project site for more projects

YZU CI Camp Website + Sen Tree Pay

(Yuan-Ze University) June 2018 - August 2018

- Led an event planning **team of 26** to deliver a 5-day event with **13 activities** and over **300+ attendees**
- Designed a landing page and registration system with **Bootstrap** and **Google Apps Script**
- Proposed and devised a point system utilized by **300+** attendees with **Laravel** and **MySQL**

Tube

(Personal Project) September 2018 - Present

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

Querator AI

(NCHU NLP Lab) May 2020 - December 2021

- Created a Question Generation web system with **React** and **BART** model and achieved over **80% reduction** in instructors' workload

Library Flow

(National Chung Hsing University) June 2021

- 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

Backend

Flask, Django, FastAPI, Ruby on Rails

Frontend

Bootstrap, React, Next.js

DevOps × Cloud

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

Miscellaneous

Linux/Unix, Git, GNU Make, GitHub Actions