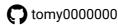
# Tomy (Chi-Wei) Hsieh







### **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

<u>Tubee</u>

(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 Al** 

(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

Python, C/C++, Java, JavaScript/TypeScript, Ruby, Shell/Bash **Programming Languages** 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