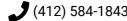
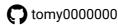
Tomy (Chi-Wei) Hsieh









EDUCATION

Carnegie Mellon University (CMU) **Graduating December 2024** Master of Software Engineering Pittsburgh, PA, United States National Chung Hsing University (NCHU) June 2022

Taichung, Taiwan

WORK EXPERIENCE

Bachelor of Science in Computer Science

Software Engineer Internship July 2021 - December 2021 Intel Corporation, Chrome Team 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 July 2020 - December 2021 Natural Language Processing Lab, NCHU Taichung, Taiwan

Advisor: Yao-Chung Fan

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 <u>landing page</u> and registration system for the event
- Proposed and devised a <u>point system</u> utilized by 300+ attendees with Laravel and MySQL

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

Querator Al

- 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