

# Tzu-Tsen Hsieh

## CONTACT

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### GitHub

<https://github.com/yammy0623>

## EDUCATION

July 2022—Present

### Electrical Engineering

National Taiwan University, Taiwan,  
Master

January 2022—June 2022

### Faculty of Science and Engineering

Linköping University, Sweden,  
Exchange student

July 2019—June 2022

### Electrical Engineering

National Central University, Taiwan,  
Bachelor

## SKILLS

### Programming Language

- Python
- C/ C++
- Matlab

### Domain Knowledge

- Computer Vision
- Ultrasound
- Signal Processing
- Network

## LANGUAGE

- Mandarin Chinese (Native)
- English (TOEIC 815)

## PROJECT EXPERIENCE

### Feastforward: Leftover Service and Management Platform (JavaScript)

November 2023—December 2023

- Created a digital platform addressing the food wastage.
- Implemented frontend with React.js, backend with Spring Boot and utilize MySQL as the database.
- Executed the project following [scrum](#) methodology and implemented DevOps practices, covering design, coding, testing, and deployment.
- Participated in frontend design, specification design, frontend and backend integration.

### Memohub: Capture, Connect, Contemplate (JavaScript)

December 2023

- Designed a platform for tracking thoughts and assisting individuals in introspection.
- Implemented frontend with React.js and backend with Node.js.
- Contributed to Integrating the platform with [OpenAI API](#) to generated questions with prompting design.

### Robust Consistent Video Based on Monodepth Estimation from Single Image (Python)

December 2022

- Implemented Monodepth Estimation with the combination of two Robust Consistent Video Depth estimation method with [Pytorch](#) as the framework.

### Analyzing Infrastructure of known Phishing Domains Project (Python)

January 2022—June 2022

- Used web crawler in [Python](#) to monitor reported phishing domains on Phishtank and executed shell script on Linux server.
- Collaborated with 3 Swedish students and served as implementor.

### Brain-Computer Interface for Mirror Learning and Virtual Rehabilitation (Python)

July 2020—May 2021

- Aimed at helping paralyzed patients to recover their action ability.
- Used imagery electroencephalogram signals to control the virtual character.

## WORK EXPERIENCE

### Computer and Network Administrator

July 2019—August 2021 @ N.C.U. Mechanical Engineering

- Dealt with the software issues and maintained the operation of computers.

### Microcontroller Unit Teaching Assistant

July 2019—August 2020 @N.C.U. Mechanical Engineering

- Taught undergraduates to design simple electric circuits.
- Assisted 5+ students in finding problems of their program.

### Computer and Network Teaching Assistant

February 2021—June 2021 @ N.C.U. Mechanical Engineering

- Provided lecture of Linux with WSL to 37 students.
- Guided students in simple webpages in PHP, HTML, JavaScript.

## ACTIVITIES

### GDSC Solution Challenge 2023

January 2022— June 2023

- Created an Android App "[Yozicare](#)" for [2023 GDSC solution challenge](#).
- Became one of the [Global Top 100 teams](#). (Only team in Taiwan)
- Took charge of google map function and create [Demo video](#).

### Lecturer of C4M Robot summer camp

July 2018—August 2018

- Lectured high school students basic programming concept and C language.