David, Sung-Yan Hsieh

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David Hsieh is a MSCS student with one year of self-taught experience in Frontend and Software Engineering. SKILLS

Programming Languages	Technologies	Tools
 JavaScript 	• HTML5/CSS3	• VScode
 Python 	 BootStrap4 	 IntelliJ
• Java	• Git	 Heroku

PROJECTS

BearMaps – Website

Java, KDTree, Priority Queue, A* Algorithm, Trie, Heroku

 Implemented the backend data structure and algorithms of a web application that resembles the features of Google Map including rastering, routing(finding the shortest path), autocomplete searching and navigation direction functions.

Percolation – Java application

Java, Disjoint Set, Monte Carlo Simulation

• Achieved the visualization of percolation by building Disjoint Sets data structure and calculate Monte Carlo simulation.

Personal Website – Website

HTML, CSS, JavaScript, BootStrap

 Designed a website and enhance user interface and experience by using using HTML5, CSS3, JavaScript and BootStrap framework.

Weather Bot - Discord bot

Python, Discord API, OpenWeatherMap API, Heroku

• Launched an online bot using Discord API, coded in Python and hosted on Heroku. Respond to user's concurrent weather, anytime, anywhere using OpenWeatherMap API.

PM 2.5 Detector – Android application

Java, Arduino, Android Studio, Blender

- Developed an Android application using Java and connected it with Arduino air quality sensor (PMS3003) by Bluetooth module.
- Designed the model of airbox to place the sensor by Blender, constructed with 3D printing.

WORK EXPERIENCE

Taipei City Hall Taipei, Taiwan

Alternative Military Service

Sep. 2020-Feb. 2020

• Catalog official documents of the Taipei City Government and maintain its website

Greennet Orchid Company

Chongqing, China

Summer Internship

July 2017-Aug. 2017

• Evaluated and determined the ideal environment for orchid flower growth by analyzing fertilizer proportion data

EDUCATION

University of California, San Diego (UCSD)

La Jolla, CA

M.S. in Computer Science and Engineering

Sep. 2021–June 2023(expected)

Tainan, Taiwan

National Cheng Kung University (NCKU)

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B.S. in Life Science

Sep. 2016-June 2020