Sung-Yan Hsieh

San Diego, CA

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Self-taught experience in Software Engineering and Web Development.

EDUCATION

University of California, San Diego

La Jolla, CA

M.S. in Computer Science and Engineering

09/2021~06/2023(expected)

National Cheng Kung University

Tainan, Taiwan

B.S. in Life Sciences

09/2016~06/2020

SKILLS

Programming Languages: Python, Java, JavaScript, C++, Haskell

Technologies: HTML5, CSS3, BootStrap, Node.js

Tools & OS: VSCode, IntelliJ, Heroku, Git, MacOS, Windows, Linux Ubuntu

PROJECTS

Personal

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 water 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 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.

Group

PM 2.5 Detector – Android application

Java, Arduino, Android Studio, Blender

Developed an Android application with intuitive UI design 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.

Delegated tasks with other two group members by organizing the project into design, develop and marketing parts. Solved problems by communicating and separating technical problems into manageable tasks and earned a top grade.

WORK EXPERIENCE

Taipei City Hall Taipei, Taiwan

Alternative Military Service

09/2020~02/2021

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

Greennet Orchid Company

Chongging, China

07/2018~08/2018 Summer Intern

Evaluated and determined the ideal environment for orchid flower growth by analyzing fertilizer proportion data. Followed through the entire manufacturing process in a startup company including tissue culture, large-scale planting to marketing strategies.