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EDUCATION

University of California, San Diego

M.S. in Computer Science

La Jolla, CA

09/2021 - 06/2023(exp.)

National Cheng Kung University

B.S. in Life Sciences

Tainan, Taiwan

09/2016 - 06/2020

SKILLS

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

Technologies: HTML5, CSS3, Bootstrap, Node.js, MySQL

Tools & OS: VSCode, IntelliJ, Heroku, Git, Docker, 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.

Blur The Background – Website

JavaScript, Tensorflow, Canvas API

Achieved the simulation of blurring out user's background in the real-time video processing by using the pre-trained Tensorflow.js models and drawing graphics with Canvas API in the static website.

Personal Website – Website

JavaScript, HTML, CSS, Bootstrap

Designed a website and enhanced 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

Alternative Military Service

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

Taipei, Taiwan

09/2020 - 02/2021

Greennet Orchid Company

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.

Chongqing, China

07/2018 - 08/2018