

YU-HSIN HUNG

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE, Irvine, California

Master of Computer Science, GPA:4.00/4.00

Expected Dec. 2021

CHANG GUNG UNIVERSITY, Taoyuan, Taiwan

Bachelor of Science in Computer Science and Information Engineering, GPA:3.92/4.00

Jun. 2020

Awards: Honor Student, College of Engineering (Top 3%), 2017, 2018, 2019, 2020

Relevant Coursework: Data Structure and Algorithms, Software Engineering, Database Design, Computer Network

TECHNICAL SKILLS

Languages: (Proficient) Python, C++, C#; (Familiar) SQL, HTML, Javascript

Frameworks & Tools: Git, Unity, Tensorflow, Keras

Databases: MySQL, Firebase

EXPERIENCE

Wayne State University, College of Engineering, Detroit, Michigan

Jun. 2019 - Aug. 2019

Researcher (Intern) - Machine Vision and Pattern Recognition Lab

- Analyzed and visualized over ten thousand experimental data points by utilizing Python, Tensorflow and Keras
- Implemented classification models using LSTM algorithm in machine learning field, analyzing data with an accuracy rate of over 92%

Chang Gung University AI Innovation Research Center, Taoyuan, Taiwan

Sept. 2018 - Jun. 2020

Research Assistant

- Developed an AI visitor interactive system integrated with image recognition and voice analysis
- Built 3D virtual character models, applied pre-developed movements on virtual characters' for vividness by using Unity and Red Pill Live

SELECTED PROJECTS

AI Visitor Interactive System based on Image Recognition and Voice Analysis

2019

Team Leader | C# | [Github](#)

An interactive system assisting receptionists by deploying 3D virtual characters, providing guest-receiving functions, integrated with image recognition and voice analysis

- Led a team of four, increased overall user interaction rate by 30% by implementing human body detection and action recognition based on YOLO v2 and Openpose
- Received a satisfaction rate of 90% from users and reduced the cost of human resources by performing visitor interactive system on hosting school guests
- Awards: Best Innovation Award, National Industry-Academy Innovation and Implementation Competition, Taiwan

2019

Electricity Fee Calculation and Electric Appliance Recommendation Web Application

Nov. 2018

Individual Developer | HTML, CSS, Javascript, MySQL | [Github](#)

A web application to calculate electricity fee and recommend appropriate electric appliances based on different users' needs

- Fetched ten different datasets containing over one hundred thousand records of electric appliances from open government database using focused crawler
- Designed an algorithm to optimize time-of-use rate users, in aims to calculate electricity fee automatically depending on different users' circumstances
- Applied greedy algorithm to auto-selecting system recommending the highest-rate appliance to a given user