YU-HSIN HUNG

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE, Irvine, California

Master of Computer Science   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

TECHNICAL SKILLS

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

Frameworks & Tools: Git, Tensorflow, Keras

Databases: MySQL, Firebase

EXPERIENCE

Wayne State University, College of Engineering   Jun. 2019 - Aug. 2019

Researcher (Intern) - Machine Vision and Pattern Recognition Lab

- Utilized Python, Tensorflow, 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   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

- Implemented human body detection and action recognition based on YOLO v2 and Openpose
- Increased overall user interaction rate by 30%
- Received a satisfaction rate of 92% from users and reduced the cost of human resources by performing visitor interactive system on hosting school guests

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 befitting electric appliances based on different users' needs

- Fetched over one hundred thousand data containing ten categories from open government data 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

HONORS & AWARDS

Honorable Mention, 17th YSED Award	2020
Best Innovation Award, National Industry-Academy Innovation and Implementation Competition	2019
Pilot Overseas Intern Scholarships, Ministry of Education, Taiwan	2019
Honorable Mention, National Intelligence Innovation and Cross-Domain Integration Awards	2019
College Student Research Scholarship, Ministry of Science and Technology, Taiwan	2019

- Got selected out of more than 3 thousand applicants

International ICT Innovative Services Awards	2018
Honor Student, College of Engineering	2017 - 2020

RESEARCH

25th Taiwan Academic Network Conference (TANET 2019), (Kaohsiung, Taiwan)   Sept. 2019

- **Y-H Hung**, C-H Huang, Y-Y Su, T-Y Lee, J-M Liang and S-L Wu, "*An Artificial-Intelligent Visitor Interactive System based on Image Recognition and Voice Analysis*"
- Assisted receptionists by deploying 3D virtual characters, providing interactive guest-receiving functions, integrated with image recognition and voice analysis system to perform perfect interaction with visitors
- Invited to deliver oral presentation at the conference, answered questions from the panel and received various positive comments from professors and attendees

LEADERSHIP

The 14th Graduation Exhibition, CSIE, CGU   Sept. 2019 - Jan. 2020

Coordinator

- Coordinated an annul exhibition of computer science and information engineering department consisting of projects and researches conducted by undergraduate students, graduate and PhD students
- Guided a team of three, communicated and negotiated with Administrative office and professors

Street Dance Club   Sept. 2017 - Jun. 2018

Director of Education and Vice Coordinator of the Year-end Performance

- Led the club to win 2nd price in the National Dance Competition and coordinated the largest year-end performance held every year, attracting more than 1,000 audiences

Computer Science and Information Engineering Summer Camp   Mar. 2017 - Sept. 2017

Vice Coordinator

- Organized a 3-day, 100-person camp consisting of both educational and entertaining events for freshmen
- Directed and negotiated with a team of more than 30 members from three different departments