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

Relevant Coursework: Distributed Computer Systems

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, Operating System, Database Design, Computer Network

TECHNICAL SKILLS

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

Frameworks & Tools: Hadoop, AWS, 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 one hundred 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

Lyrics-Based Music Recommendation System (in progress) 2021

Software Engineer | Hadoop | AWS

A music recommendation system using the "mood" of the song as a key factor to recommend songs to users

- Utilize Hadoop and AWS frameworks to process and label the lyrics training dataset

AI Visitor Interactive System based on Image Recognition and Voice Analysis 2019

Team Leader | C# | Awards: Best Innovation Award, National Industry-Academy Innovation and Implementation Competition, Taiwan

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

Electricity Fee Calculation and Electric Appliance Recommendation Web Application Nov. 2018

Individual Developer | HTML, CSS, Javascript, MySQL

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