

Ming-Hsin Chen

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National Cheng Kung University, 701, Tainan City, Taiwan | he/him/his

Education

M.S. National Cheng Kung University (GPA 4.0/4.0)

Aug 2021 ~ July 2023 (expect)

AI Robotics, College of Miin Wu School of Computing

■ *Image Processing and Robot Vision* A+ / *Image Processing and Data Analysis* A

■ *AI: Computation and Applications* A / *Interaction with Chatbots (NLP)* A

B.S. National Cheng Kung University (GPA 3.03/4.0)

Sep 2017 ~ July 2021

Computer Science, College of Computer Science and Information Engineering

Skills

Proficient in OpenCV, Python, Pytorch, C#, C++, Vue.js, HTML/CSS/JavaScript.

Skilled in Image Processing, Computer Vision, Nature Language Processing, Unity3D, Git, Adobe Photoshop.

Work Experience

Google exploreCSR NCKU Fun AI Winter Camp as Teaching Assistant Feb 2022

■ Assisted college students to learn Python and game AI related theories and taught them using Game AI to generate a better strategy. (e.g., Reinforcement Learning, Image Processing).

■ **Outcome:** Successfully helped my group members to win the 4th place in the final racing game.

NCKU SCREAM Lab as Project Developer

July 2021 ~ Feb 2022

■ Developed online multi-player login system in a VR game project, which based on Unity3D and coded in C#. This VR project is seeking sponsorship and planned to be exhibited at the end of 2022.

■ Cooperated with 3D model designers and software engineers (totally 15 developers) to construct a 'Metaverse Scene' including the Tang Te-chang Memorial Park, a famous landmark in Tainan, Taiwan.

■ **Outcome:** Enhanced multiplayer connection fluency by 33% and improved stability significantly.

NCKU 13th Bike Festival Official Website as Front-End Developer

Dec 2019 ~ Mar 2020

■ Developed the whole front-end framework and cooperated with Web UI/UX designers, coded with Vue.js, HTML/CSS/JavaScript.

■ **Outcome:** Boosted the website pageviews by 50% through new methods (e.g., SEO, Web Performance Optimization) and attained over 45,000+ pageviews and 20,000+ visitors during 2020.

Project Experience

Interaction with Chatbots (NLP) Academic Project as Team Leader

Sep 2021 ~ Jan 2022

■ Learned the usage of Flask framework and LINE API. Published the required packages to the Docker environment and used GitLab to do version control. (Coded in Python3.)

■ Concatenated LINE Chat with the local-side NLP Model computations by using Ngrok.

■ **Outcome:** Built up an official LINE Account which combined the TRPG (Text RPG) and NLP Models. Successfully fine-tuned BERT and Cosine Similarity Models through collecting input data.

Image Processing and Robot Vision Academic Project as Developer

Oct 2021 ~ Nov 2021

■ Applied mathematical knowledges in the field of Computer Vision to implement template matching and image segmentation features without OpenCV. (Coded in Python3.)

■ **Outcome:** Used the methods of Pyramid-Down sampling and Multi-Core processing to accelerate the operation time up to 20% faster than the OpenCV method.

2020 NCKU CSIE Graduation Project as Team Leader

Dec 2019 ~ May 2020

■ Led a 3-member team to develop the VR Game project on HTC Vive platform.

■ **Outcome:** Honored with 'Excellent Award' in the 2020 NCKU CSIE Graduation Project Exhibition.

Honors

■ **【Full Scholarship】** 2021 AI Robotics, College of Miin Wu School of Computing

■ **【Excellent Project Award】** 2020 National Cheng Kung University CSIE Graduation Project