Ming-Hsin Chen

travis.xin@gmail.com | https://www.linkedin.com/in/travischen-taiwan | http://travischen.me

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
- Leaded 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**