LIN, CHIEN-YEH

+886 928976756 / ChienyehLin.github.io / linchienyeh_jaden@outlook.com

EDUCATION

National Sun Yat-Sen University (NSYSU)   **Kaohsiung, Taiwan**
B.S. in Computer Science & Engineering   **Sep 2015 - Jun 2019**
- Cumulative GPA: 3.93/4.3, Rank: 5/57, Last 2 years: **4.05/4.3**, Major **4.03/4.3**

Nanyang Technological University (NTU)   **Singapore**
Exchange Program in Computer Science (GPA:4.33/5.0)   **Jan 2019 - Jun 2019**

INDEPENDENT PROJECTS & RESEARCH

Digital Image Processing Project, NSYSU   **Oct - Dec 2018**
- Built an image processing tool in Java and designed a corresponding GUI in JavaFX
- Implemented multiple image operations and enhancement (Rotation, Scaling, Histogram Equalization, Contrast Stretching, Etc.) and filtering function (Averaging, Edge Crispening, Gaussian, Median, Sober, High-boost Filter, Etc.) by coding algorithms on pixels but not by directly calling functions
- Implemented video and image compression and decompression functions (Image: Huffman Code, DCT, Fractal. Video: Intraframe, Interframe, motion vectors (Block Matching), Etc.)

Auxiliary System for The Visually Impaired (Object Detection)   **Aug - Nov 2018**
- Implemented methods of object detection (including CNN, YOLO, SIFT) in OpenCV and Tensorflow
- Built a Python back-end system capable of receiving images from smartphone camera, detecting specific objects from the images in real time with an above 90% accuracy, and delivering detection results to the smartphone
- Built a front-end Android application capable of sending images to the back-end system and reading detection results, and optimized detection time to real-time

Virtual Reality Project, NSYSU   **Dec 2018**
- Created an escape the room game in Unity3D and combined HTC VIVE controllers with the VR environment

Mobile Application Project, NTU   **Feb - Apr 2019**
- Used Google Firebase, Singapore government's open data and Maps SDK to build a Singapore hawker-centers rating & reviewing platform app in Android Studio

SCHOLARSHIP/AWARDS

-Presidential Award, ranked first in the class, NSYSU   Spring 2017
-Major Course Awards (top 7 in the program), NSYSU   Fall 2015; Spring, Fall 2016; Spring, Fall 2018
-Senior Research Project Scholarship, NSYSU   Fall 2018
-Research Assistant Scholarship, NSYSU   Fall 2018

INTERNSHIP

IT Engineer, Wistron NeWeb Corporation, Hsinchu City, Taiwan   **Summer, 2018**
- Completed a MongoDB & Elasticsearch study, shared experience with the engineers by holding weekly presentation, and produced SOP manuals
- Built a MongoDB environment, designed NoSQL DB schemas, and transferred the Oracle database system to the MongoDB database in order to manage growing amount of business information
- Developed a prototype search engine and a full-text search backend for the company's internal use: parsed the company's documents into MongoDB database in Java; synchronized the data of the MongoDB database to Elasticsearch in Python; used Elasticsearch as a back-end search engine system and designed schemas to meet the needs for storing large file data; collaborated with another intern to port the full-text search application to mobile phones

System Engineer, DJ HealthUnion Systems Corporation, Shanghai, China   **Summer, 2016**
- Assisted in the environmental construction and maintenance of Radiological Information System (RIS) for Shanghai Xinhua Hospital; provided RIS training to the doctors
- Helped solve MIS and hardware problems; generated medical information reports as requested by doctors

TEACHING EXPERIENCE

Teaching Assistant, Dept. of CSE, NSYSU   **Spring 2018**
- Taught Java Programming to a class of 100 students (3 hours per week)

Tutor of Major Courses, Dept. of CSE, NSYSU   **Spring 2018 & Fall 2018**
- Tutored 70 major students in Linear Algebra, and Probabilities (3 hours per week)

SKILLS

- Programming skills: C/C++, C#, Java, Python, Unix shell script, Android programming, TCP/UDP socket programming, Unity3D, VRML, Verilog
- Frameworks & Libraries: OpenCV, Tensorflow, Keras, OpenGL, NumPy, JavaFX (GUI library)
- Databases skills: Microsoft SQL server, MySQL, MongoDB
- Web development skillst: HTML, ASP.NET, JavaScript

LEADERSHIP/ACTIVITIES

Vice President, Student Association of Dept. of CSE, NSYSU   **Sep 2016 - Jun 2017**
- Coordinated with other students and organized the New Student Orientation and social events that have an average of 200 attendees or more, such as Christmas Party, singing competition, street fairs, sports competition, e-sports competition, and departmental meetings

Organizer, Graduation Ceremony of Dept. of CSE, NSYSU   **Apr - Jun 2018**
- Coordinated with other officers in the organization of the departmental graduation ceremony; choreographed and led the dance group in a performance at the ceremony

INDEPENDENT STUDY

Via Coursera:
- **Android**: completed the relevant course _Programming Mobile Applications for Android Handheld Systems_(10weeks)
- **Deep Learning Specialization**: completed the relevant 5 courses (16 weeks)
- **TensorFlow in Practice Specialization**: completed the relevant 4 courses (12 weeks)

Via other universities' course sites:
- **Machine Learning:** completed the relevant course _Machine Learning Foundations_ (8 weeks), National Taiwan University,
- **Computer Vision**: completed the relevant course (CS131), Stanford University