KUAN-LIN LEE

kl3894@nyu.edu | (646) 675-4469 | Brooklyn, NY
Linkedin: https://www.linkedin.com/in/kuanlinlee0119
Github: https://github.com/ericleee0119

EDUCATION

New York University, New York, NY — September 2021 – May 2023
Master of Science in **Computer Science**

National Taiwan University of Science and Technology, Taipei City, Taiwan — September 2016 – July 2018
Master of Science in **Computer Science**

TECHNICAL SKILLS

Languages: C/C++, C#, Python, Java, HTML, JavaScript, TypeScript
Operating System: Linux, Unix, ChromeOS, Windows, macOS, Android, IOS
General Skills: PyTorch, Tensorflow, Xamarin (.NET), MySQL, Servo (Hardware debug tools), AWS, GCP, Google Charts, Web Development (Apache), Indoor Navigation System, Application Development (Windows, IOS, Android), Gerrit, GitHub

EXPERIENCE

Software Engineer Intern, Google, ChromeOS, Platforms & Ecosystems, Mountain View, CA, USA — May 2022 – Aug 2022

- Built an HTTP server thread to pass the power measurement data to the webpage through TCP
- Implemented a real-time visualization server for the power measurement to help developers more convenience to analyze and debug on the Hardware devices
- Developed the Parallax project which can real-time receive the data and transform it into charts

Computer Vision Software Engineer, PEGATRON Corporation, Taipei City, Taiwan — Sept 2020 – June 2021

- Implemented AI fitness system that can record coaches' actions, and use this record to improve students' fitness actions
- Built a real-time system that can detect the user's voice emotion and their unsuitable speaking word, my method improved 11% accuracy on the voice emotion detection
- Developed a tool that can detect the condition of the chipset and the PCB, my implementation helped the factory to reduce 95% of the time on the inspection of each board
- Implemented a real-time system that can determine if speed dome cameras in the factory are not working

Research Assistant, Academia Sinica, Institute of Information Science, Taipei City, Taiwan — May 2019 – Dec 2019

- Helped launch a start-up company that specializes in producing indoor object tracking and navigation technology
- Developed an Indoor Navigation app with Xamarin (C#) that can help direct users to arrive at the correct destination

Teaching Assistant, National Taiwan University of Science and Technology, Taipei City, Taiwan — Sept 2016 – June 2017

- Teaching Assistant for Programming Language and Database

Software Engineer Intern, Ezimage Technology, New Taipei City, Taiwan — Mar 2016 – July 2016

- Improved 5% accuracy on moving object detection by using the depth camera on Raspberry Pi

Software Engineer Intern, PEGATRON Corporation, Taipei City, Taiwan — July 2015 – Aug 2015

- Developed a Lane Departure Warning System with cars and lane stripes detection
- Implemented a system that can detect pedestrians and improve the detection rate by detecting moving objects

Software Engineer Intern, Advantech Corporation, Taipei City, Taiwan — July 2014 – Aug 2014

- Developed a system that can produce the label used to check the yield rate of the production

PATENTS

Kuan-Lin Lee & Jun-Ying Li. "Training Method of Generator Network Model and Electronic Device for Execution Thereof" U.S. Patent application 17/739,008 - May 06, 2022 (pending)

- Implemented an enhancement on the GAN to produce the combination images that the generator has not seen before

AWARDS

My work at Academia Sinica won the following awards:

- 16th **National Innovation Award** of Research Center for Biotechnology and Medicine Policy — December 2019
- **Taipei Invention Award** of Taiwan Innotech Expo-Innovative Invention — September 2019

Second Place, **Special Research Competition**, National Taiwan Ocean University — December 2015

- Built a cell phone app to detect the identity of people from gyroscope data and the physical appearance of their ear

PUBLICATION

Kuan-Lin Lee & Yi-Leh Wu. "**Low Visibility Street Scenes Recognition with Augmented Image,**" 8th International Congress on Advanced Applied Informatics, 2019. Congress Proceedings will be published by CPS (IEEE Computer Society)
Improved 28% accuracy on the nighttime vehicle dataset and 0.7% accuracy on the KITTI daytime dataset