Chun Lun Lin

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Educations

- **University of California, Irvine** — **Irvine**
  Master of Science in Computer Science — *2018–present*
- **University of Illinois Champaign-Urbana** — **Champaign**
  Exchange in Computer Science — *2017–2018*
- **National Chiao Tung University** — **Hsinchu**
  Bachelor in Electrical Engineering and Computer Science — *2014–2018*

Ecperience

Research Assistance

- **University of Illinois Champaign-Urbana** — **Champaign**
  Coordinate Science Laboratory (CSL) — *2017–2018*
  Construct an end to end model converters. Such as convert models of caffe to caffe2 and tensorflow to caffe2. Analyze the performance of different models on different frameworks.
- **National Chioa Tung University** — **Hsinchu**
  Distribute System and Network Security Lab(DSNS) — *2016–2017*
  Combine multiple methods to detect firmwares of IOT device. Expand the current Fuzzer system to automatically support different dynamic linking library framework. Adding decompile to the system. Construct an user interface.

Teaching Assistance

- **National Chiao Tung University:** *'Introduction to Computer Science and Programming'*
  My main works are to design five homework for the students in the class,and design the final project of the course. The language mainly in the course is python. while students in the class have medical background, the final project is mostly related to image processing so that the course can eventually help these students with their profession field.

Selected Projects

- **IOT device firmware automatically security detection**
  - Multiple security techniques combinations, such as Firmadyne, Fuzzer, Metasploit, angr.
  - Extend the Fuzzer system under different filesystem and dynamic library linking.
  - It will first extract the file system and do the simulation of the firmware system. Later it will do the Fuzzer via the AFL and then the dynamic test, Metasploit. Eventually it will output a security index value to show how safe or how valunerable is the firmware.
- **Model analyze and conversion**
  - Construct the model converters base on the open source. Fixed the weight and certain model functions in order to make models convert successfully.
  - Analyze the performance of different models on different frameworks. I tested over 10,000 web searchable image and come up with a great function to determine whether right or wrong.

Technical and Personal skills

- **Programming Languages:** Proficient in: C, C++, Python, TeX
  Also basic ability with: Assembly, VHDL.
- **Platform and tools:** Linux, QT, MySQL, Git