Gavin Lee

李孟瑾

Python 、 C++/C 、 Machine Learning 、 Cyber security

📍 Taipei, Taiwan [in] [github]

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Education

National Taiwan University of Science and Technology
2019 - 2021

Computer Science and Information Engineering

• Cybernetics and Network Security Lab directed by Dr. Wei-Chung Teng

• Master thesis: An approach to detect and to classify encrypted malicious internet traffic based on machine learning algorithms

National Chung Cheng University
2016 - 2019

Computer Science and Information Engineering

• Fuzzy Systems and Neural Networks Lab directed by Dr. Pao-Ta Yu

• Independent Study: Panoramic image from raspberry pi (Image Processing)

Experience

Semester Intern • Consumers' Foundation, Chinese Taipei

Dec 2020 - Jun 2021

• Front and Back End development experience
• Problem Solving & Report

Summer Intern • Taiwan Semiconductor Manufacturing Company

Jul 2020 - Aug 2020

• Penetration Test , Web Exploitation
• System Automation (Develop a mail-related automation program)

Project in school • Research Assistant in NTU EE

Nov 2019 - Jun 2020

• Malware Traffic Collection and Analysis
• Malicious Flow Detection with Machine Learning method

Semester Intern • Institute for Information Industry

• Make tool for capturing your 2G/3G/4G air traffic on Qualcomm-based phones (QCSuper)
• Radio frequency
   srsLTE- Open Source LTE from Software Radio Systems (SRS)
• Implementing the IMSI-catcher attack

CTF (Capture The Flag) • Cyber Security Competitions

• Team up for the competition of CTF, and find out the security vulnerability in many field
(e.g. Cryptography, Web Exploitation, OSINT...etc)
• Competition participation: **AIS3 EOF 2019**

Global Volunteer • AIESE

Jul 2016 - Sep 2016

• Experience new cultures in Malaysia
• Take care of the elderly, promote Taiwan's international image

Side Project

Malware Flow Detection

Analyze the Self-collected PCAP files by cuckoo sandbox automatically, include the TLS/SSL traffic, and determine which files belong to Malicious traffic.
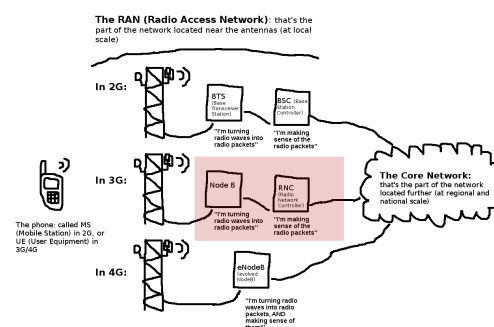
Malicious Flow Detection Project

Panorama Stitching

Automatic panorama stitching technology has been widely adopted in many applications such as Google Street View, panorama photos on smartphones, and stitching software such as Photosynth and AutoStitch.

Independent Study

Qcsuper

A tool for capturing your 2G/3G/4G air traffic on Qualcomm-based phones an open-source tool that will enable you to passively capture raw 2G/3G/4G frames produced by your rooted Qualcomm-based Android phone or dongle, and produce a PCAP analyzable using Wireshark.

Project powerpoint