

Education

Purdue University West Lafayette, IN

Ph.D. IN COMPUTER SCIENCE

Sep. 2021 - now

· Research Interests: Human Computer Interaction, Machine Learning, Data Engineering, Software Engineering

National Sun Yat-San University (NSYSU)

Kaohsiung, Taiwan

M.S. IN COMPUTER SCIENCE

Sep. 2015 - Jun. 2017

Courses: Electronic Signature Protocol And Application, Special Topics In Electronic Commerce And Security Engineering, Cryptography Protocol And Smart Cards

National Sun Yat-San University (NSYSU)

Kaohsiung, Taiwan

B.S. IN COMPUTER SCIENCE

Sep. 2011 - Jun. 2015

• Course: Hack Technology And Forensic, Information Security, Secure Electronic Commerce

Publication

Efficient Key-Aggregate Proxy Re-Encryption for Secure Data Sharing in Clouds

Kaohsiung, Taiwan

IEEE CONFERENCE ON DEPENDABLE AND SECURE COMPUTING (DSC)

Dec. 2018

Aug. 2021

- · Combined a Key-Aggregate approach and a Proxy Re-Encryption scheme into a Key-Aggregate Proxy Re-Encryption.
- · Proved that the size of the Re-Encryption keys is constant while achieving fine-grained access control rights on the encrypted files.

Multichannel Television Sound Detector for Analog TV

Hsinchu, Taiwan

PATENT

• Used the thread detector method to construct a solution specifically for Android TV to detect the multi-channel system.

Research Experience

Human-Centered Software Systems Lab

West Lafayette, IN

HCI RESEARCHER

Jan. 2022 - now

- · Designed and Implemented an interactive user interface using React.js to build a web-scraping tool with better user control and confidence.
- · Analyzed data science practitioner's behavior to design interactive tools.

Information Security Laboratory

Kaohsiung, Taiwan

RESEARCH ASSISTANT IN INFOMATION SECURITY

Sep. 2015 - Jun. 2017

- Used cryptography standard proof methods to evaluate schemes' security level.
- Combined Key-Aggregate technique with Proxy Re-Encryption scheme.

VLSI Design LabKaohsiung, Taiwan

RESEARCH ASSISTANT IN IMAGE PROCESSING

Feb. 2014 - Dec. 2014

- Used the SIFT algorithm to capture keypoints of two pictures.
- · Marked keypoints matches in the dynamic programming backtracking stage to improve the results of the depth map.

Work Experience

Intel Corp. Hillsboro, OR

SOFTWARE ENGINEER INTERN @ CHROME OS DEPARTMENT

Jun. 2022 - Dec. 2022

- · Compared performance difference by running i965 and iHD media drivers on Chrome OS platforms.
- Used PMT tools to locate and resolve Chrome OS bugs.

Realtek Semiconductor Corp.

Hsinchu, Taiwan

Android TV Software Engineer @ Multimedia department

Sep. 2017 - Mar. 2021

- Designed and implemented test modules of multimedia features using Google's C++ test framework.
- Designed and implemented a TS Parser using C according to ISO 13811 spec.
- · Maintained Android TV Behavior spec.

FEBRUARY 7, 2023 WEIHAO CHEN

QNAP Systems Inc.Taipei, Taiwan

SUMMER INTERN @ SECURITY DEPARTMENT

Jul. 2016 - Aug. 2016

• Tested the security vulnerabilities of the provided APPs in QNAP's Network-attached storage (NAS).

• Used Metasploit and John the Ripper to hack user's password on NAS successfully.

Skills_

Front-end Redux, React, HTML, CSS, Figma

Back-end Express, REST API

Programming C/C++, JavaScript, Python, LaTex

DevOps Jenkins, JIRA

Library Scikit-learn, Numpy, Pandas, Kera, TensorFlow

Languages Mandarin, English