KAI-HSIANG (ALLEN) CHOU

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EDUCATION

Bachelor of Science in Computer Science and Information Engineering National Taiwan University, Taipei, Taiwan

Bachelor of Arts in Philosophy (Double-major) National Taiwan University, Taipei, Taiwan

PUBLICATIONS

Peer-Reviewed Articles

Capturing Antique Browsers in Modern Devices: A Security Analysis of Captive Portal Mini-Browsers P.-L. Wang, K.-H. Chou, S.-C. Hsiao, A.-T. Low, T. H.-J. Kim, and H.-C. Hsiao International Conference on Applied Cryptography and Network Security (ACNS), June 2023 Best Student Paper Award

Investigating Advertisers' Domain-changing Behaviors and Their Impacts on Ad-blocker Filter Lists S.-C. Lin*, K.-H. Chou*, Y. Chen, H.-C. Hsiao, D. Cassel, L. Bauer, and L. Jia The Web Conference (TheWebConf), April 2022

Manuscripts

A Privacy-Preserving Group Messaging Protocol against Adversarial Chatbots K.-H. Chou, I-M. Lin, H.-C. Hsiao

*: Equal Contributions.

WORK EXPERIENCE

Sprout Program	Mar. 2021 - Present
 Designed the homework problems, including mathematical proofs and CTF challenges. Graded the homework, midterm, and final projects. Held TA sessions to answer student questions and guide students in completing the home 	ework.
Cryptography and Network Security Teaching Assistant	Spring 2023
EACHING	
• Topics: web security, browser security, applied cryptography, and secure messaging.	
· Advisor: Prof. Hsu-Chun Hsiao	i aspes, i asaan
Undergraduate Research Assistant Network Security Lab, National Taiwan University	Sep. 2019 - Present Taipei, Taiwan
 Participated in developing the Hospital Information System of Shin Kong Wu Ho-Su Me Took charge of the Death Certificates and Paper Medical Records management systems. Improved performance of message notification system by 95%. 	-
Microsoft Technical Assistant Intern at Microsoft Consulting Services	Oct. 2019 - Jun. 2020 Taipei, Taiwan
 Built an iOS and Android app using React Native to allow users to search for local air q Implemented a feature that alerts users of poor air quality using background location. 	uality.
AirTaiwan Project at Environmental Economics Lab App Developer	Sep. 2020 - Oct. 2021 Taipei, Taiwan
 Implemented a backend system with RESTful API using Next.js and PostgreSQL to sto planned trips. Developed a Chrome extension to show recommended attractions on Yahoo's search result. 	
Yahoo! SWE Intern at Search Engineering Team	Jul. 2022 - Aug. 2022 Taipei, Taiwan

Lecturer (in a team of 5+ lecturers)

- · Provided free or affordable Python lectures to high school students to inspire interest in CS.
- \cdot Mentored 50+ high school students to complete various labs and projects.
- Student Evaluation: 4.47/5 (2021), 4.48/5 (2022)

2018 - 2024 (Expected)

2020 - 2024 (Expected)

TALKS

Web Tracking and Browser Fingerprinting	Feb. 2023
GCC (Global Cybersecurity Camp) 2023 Singapore	Singapore
Timing Attack: From Beginning to Expired HITCON (Hack in Taiwan Conference) 2022 Workshop	Aug. 2022 Taipei, Taiwan
On the Dictatorship of Black Box Algorithms <i>The Campus Computer & Network Society of NCKU</i>	Apr. 2020 Tainan, Taiwan
How Do Computers Draw? A Brief Introduction to Image-Based Artistic Rendering SITCON (Students' Information Technology Conference) 2020	Aug. 2020 Taipei, Taiwan
HITCON 101 - Introduction to Cryptography HITCON (Hack in Taiwan Conference) 2018	Jul. 2018 Taipei, Taiwan
AWARDS	
Best Student Paper Award ACNS 2023	Jun. 2023
First Place in Security <i>iThome Ironman Technical Article Writing Competition 2022</i>	Sep. 2022
Best Independent Study in Cryptography and Cryptanalysis Advanced Information Security Summer School (AIS3) 2019	Aug. 2019

PUBLIC SERVICES

Information Department, NTU Student Association

Member (2022), Deputy Chief (2023)

- \cdot Served as student representative in university meetings on enacting personal data protection and data sharing regulations, actively contributing to enhanced privacy and transparency in the final regulations.
- · Communicated the university's information security and data protection policies and practices to students.
- · Proposed and implemented user interface and user experience guidelines for the university's information systems.

Activity Team, HITCON (Hack in Taiwan Conference)

Member (2021), Team Leader (2022), Vice Team Leader (2023)

- \cdot Led team of 20+ members to plan and execute events at HITCON, a thousand-attendee security conference, facilitating engagement and networking.
- \cdot Developed web-conferencing software with virtual meeting rooms for conferences during the pandemic, contributing to RPC library, video conferencing integration, and production deployment.

Agenda Team, SITCON (Students' Information Technology Conference)

Member (2016, 2017), Team Leader (2019, 2020)

- \cdot Led a team of 10+ members to manage the agenda of a thousand-attendee, student-oriented conference, including call for papers, reviewing submissions, and inviting keynote speakers.
- \cdot Organized panel discussions on a wide range of topics, from promoting nation-wide information education in high schools to the risks of algorithmic decision-making.

Last update: Oct. 08, 2023