

# KAI-HSIANG (ALLEN) CHOU

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## EDUCATION

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- National Taiwan University**, Taipei, Taiwan 2018 - 2024 (Expected)  
Bachelor of Science in Computer Science and Information Engineering
- National Taiwan University**, Taipei, Taiwan 2018 - 2024 (Expected)  
Bachelor of Arts in Philosophy (Double-major)

## PUBLICATIONS

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- 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, formerly known as WWW), April 2022

\*: Equal Contributions.

## WORK EXPERIENCE

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- Yahoo!** Jul. 2022 - Aug. 2022  
*SWE Intern at Search Engineering Team* Taipei, Taiwan
- Implemented a backend system with RESTful API using Next.js and PostgreSQL to store tourist attractions and planned trips.
  - Developed a Chrome extension to show recommended attractions on Yahoo's search results page.
- AirTaiwan Project at Environmental Economics Lab** Sep. 2020 - Oct. 2021  
*App Developer* Taipei, Taiwan
- Built an iOS and Android app using React Native to allow users to search for local air quality.
  - Implemented a feature that alerts users of poor air quality using background location.
- Microsoft** Oct. 2019 - Jun. 2020  
*Technical Assistant Intern at Microsoft Consulting Services* Taipei, Taiwan
- Participated in developing the Hospital Information System of Shin Kong Wu Ho-Su Memorial Hospital.
  - Took charge of the Death Certificates and Paper Medical Records management systems.
  - Improved performance of message notification system by 95%.
- Undergraduate Research Assistant** Sep. 2019 - Present  
*Network Security Lab, National Taiwan University* Taipei, Taiwan
- Advisor: Prof. Hsu-Chun Hsiao
  - Topics: web security, browser security, applied cryptography, and secure messaging.

## TEACHING

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- Cryptography and Network Security** Spring 2023  
*Teaching Assistant*
- 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 homework.
- Sprout Program** Mar. 2021 - Present  
*Lecturer*
- Taught Python from basics to applications in a team of 5+ lecturers.
  - Mentored 50+ high school students to complete various labs and projects.
  - Student Evaluation: 4.47/5 (2021), 4.48/5 (2022)

## TALKS

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<b>Web Tracking and Browser Fingerprinting</b> <i>GCC (Global Cybersecurity Camp) 2023 Singapore</i>	<i>Feb. 2023</i> <i>Singapore</i>
<b>Timing Attack: From Beginning to Expired</b> <i>HITCON (Hack in Taiwan Conference) 2022 Workshop</i>	<i>Aug. 2022</i> <i>Taipei, Taiwan</i>
<b>On the Dictatorship of Black Box Algorithms</b> <i>The Campus Computer &amp; Network Society of NCKU</i>	<i>Apr. 2020</i> <i>Tainan, Taiwan</i>
<b>How Do Computers Draw? A Brief Introduction to Image-Based Artistic Rendering</b> <i>SITCON (Students' Information Technology Conference) 2020</i>	<i>Aug. 2020</i> <i>Taipei, Taiwan</i>
<b>HITCON 101 - Introduction to Cryptography</b> <i>HITCON (Hack in Taiwan Conference) 2018</i>	<i>Jul. 2018</i> <i>Taipei, Taiwan</i>
<b>Introduction to Database Systems</b> <i>Computer Science Club of Hsinchu Girl's Senior High School</i>	<i>Jun. 2018</i> <i>Hsinchu, Taiwan</i>

## AWARDS

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<b>Best Student Paper Award</b> <i>ACNS 2023</i>	<i>Jun. 2023</i>
<b>First Place in Security</b> <i>iThome Ironman Technical Article Writing Competition 2022</i>	<i>Sep. 2022</i>
<b>Best Independent Study in Cryptography and Cryptanalysis</b> <i>Advanced Information Security Summer School (AIS3) 2019</i>	<i>Aug. 2019</i>

## PUBLIC SERVICES

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<b>Information Department, NTU Student Association</b> <i>Member (2022-2023)</i>
<b>Activity Team, HITCON (Hack in Taiwan Conference)</b> <i>Member (2021), Team Leader (2022), Vice Team Leader (2023)</i>
<b>Agenda Team, SITCON (Students' Information Technology Conference)</b> <i>Member (2017, 2018), Team Leader (2020, 2021)</i>