

# Jhih-Jhong (Johnny) Lin

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## Education

**Bachelor of Science in Computer Science and Information Engineering**

National Taiwan University (NTU)

📍 Taipei, Taiwan

Aug. 2022 - Jul. 2026 (Expected)

**Cumulative GPA:** 4.24/4.30 | **Cumulative Class Rank:** 8/196 (as of 2022–2025) | **2 Dean's List Awards**

**Admitted to:** M.S. Program in Computer Science and Information Engineering, NTU (Fall 2026)

**Relevant Courses:** Algorithm Design and Analysis (A+), Cryptography and Network Security (A+), Compiler Design (A+), Formal Methods (A), Operating Systems (A+), Virtual Machines (A), Computer Architecture (A+)

## Experience

**Research Intern / Project Assistant**

Institute of Information Science (IIS), Academia Sinica | Advisor: Prof. **Bow-Yaw Wang**

- Developing abstract interpretation techniques for verification of floating-point cryptographic programs.

📍 Taipei, Taiwan

Jul. 2025 - Present

**Undergraduate Researcher**

Network Security Lab (NSLab), CSIE, National Taiwan University | Advisor: Prof. **Hsu-Chun Hsiao**

- Investigated integration of directed fuzzers with recurring vulnerability detection tools.
- Currently exploring formal methods, including static analysis and cryptographic protocol verification.

📍 Taipei, Taiwan

Sep. 2024 - Present

**Teaching Assistant**, Introduction to Computational Logic

Department of Computer Science and Information Engineering, National Taiwan University

📍 Taipei, Taiwan

Fall 2025

**Network Administrator** (Member of NASA Team)

Department of Computer Science and Information Engineering, National Taiwan University

- Maintained switch infrastructure serving 600+ faculty members and students.
- Built automated monitoring and backup workflows for newly deployed switches.

📍 Taipei, Taiwan

Sep. 2023 - Jun. 2025

**Teaching Assistant**, Network Administration and System Administration

Department of Computer Science and Information Engineering, National Taiwan University

📍 Taipei, Taiwan

Spring 2025

## Skills

**Languages:** Mandarin (native); English (advanced reading & writing, intermediate speaking; TOEFL iBT 103/120)

**Programming:** C, Python, Ocaml, Bash; working knowledge of C++, Java, and Haskell

**Software:** Linux, Git,  $\LaTeX$ , Docker, CPACHECKER, CRYPTOLINE, Compiler (flex, yacc), Fuzzing (AFL++)

## Selected Projects

**MERKLEDIR.SH:** s shell script that creates Merkle trees from directories and generates/verifies inclusion proofs

🔗 [Code \(Bash\)](#) | Developed as a TA for Network Administration and System Administration

**CTF Challenge Design: Cryptography, Fuzzing, and DNS Cache Poisoning**

🔗 [DNS Cache Poisoning](#) | 🐙 [Cryptography and Fuzzing](#) | Developed as a TA for Network Administration and System Administration

**An Evaluation on Possibilities of RCE and Defense Mechanism in Electron-Based Applications**

Co-authored with: Gang-Yu Fan, Tsan-Huan Hsu, Yi-Ting Lo

📄 [Project Report](#) | Cryptography and Network Security Course Project

**Grey-Box Symbolic Execution with Likely-Invariant Generation in CPACHECKER**

🔗 [Code \(Java\)](#) | 📄 [Project Report](#) | Formal Methods Course Project

**Terminal-Based P2P and Centralized Chatroom Implementation**

Co-authored with: Wen-Chun Kao

🔗 [Code \(C++\)](#) | Computer Networks Course Project