

# Sky Shih-Kai Hong

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## EDUCATION

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- **National Yang Ming Chiao Tung University (NYCU)** Hsinchu, Taiwan  
*M.S. in Data Science and Engineering (IDS&E); Advisor: Prof. Grace Yu-Chun Yen* Jun 2025 – Expected 2027
  - **Publication (R&R)**: Second author on an ACM CHI 2026 full paper in revise-and-resubmit; contributed to research iteration including study design and system prototyping.
  - **Teaching / Mentoring (Capstone)**: TA for *Multimedia and Human-Computer Interaction Capstone* (Prof. Yen, Prof. Chang); mentored 40+ students across 8 teams with ongoing technical/design reviews.
- **National Taiwan Normal University (NTNU)** Taipei, Taiwan  
*B.S. in Computer Science and Information Engineering (CSIE)* Sep 2021 – Jun 2025
  - **Honors & academics**: Outstanding Student Award (AY112; 1/department); GPA 3.82; 159 credits; EMI-certified (E1, 18 EMI credits); Educational Program for Secondary School Teachers (IT).

## EXPERIENCE

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- **Institute of Information Science, Academia Sinica (Hinagiku Team)** Taipei, Taiwan  
*Research Grant Student, Project Manager & Researcher — Prof. Ling-Jyh Chen* Feb 2025 – Jun 2025
  - **Leadership & execution**: Led 6+ developers and drove delivery via 60+ issues and 200+ PRs; owned roadmap, task breakdown, and issue board operations.
  - **Stakeholder-driven iteration**: Ran 10+ sessions with teachers/stakeholders; validated Think-Pair-Share (TPS) end-to-end and translated classroom constraints into shippable features.
  - **System & stack**: Real-time discussion support with voice transcription/analysis; SvelteKit, Firebase (Firestore/Auth) on GCP, GCS/Cloudflare R2, Genkit LLM (multi-provider). (GitHub | Wiki)
- **National Taiwan Normal University (NTNU)** Taipei, Taiwan  
*Teaching Assistant, Programming I & II (C) — Prof. Po-Wen Chi* Sep 2023 – Jun 2024
  - **Teaching excellence at scale**: Supported 80–120 students in C programming (pointers, strings, structs, memory); earned 4.9/5 student rating (highest among 5 TAs) and received a university-wide Outstanding TA award; co-ran 11 optional TA Hours (230+ attendances).
  - **Automation & assessment**: Authored exam/assignment problems and built Bash/Makefile-based autograding pipelines to standardize builds, run test cases, and streamline grading at scale.

## PROJECTS

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- **UniCourse — Cross-University Course Search Database (Open Data)**: Built a course search platform; implemented data collection/normalization and delivered a searchable UI. Presented at COSCUP 2023. (Talk)
- **learnCIoT — Public IoT Data Learning Materials (Academia Sinica)**: Contributed to a public educational site for Taiwan Civil IoT data; wrote Chapter 3 “Data Access” materials and improved technical documentation for reproducible, hands-on exercises. (Content)
- **Bridging the Recursive Public — OpenAI “Democratic Inputs to AI” (vTaiwan)**: Represented vTaiwan in an OpenAI-funded international deliberation project (with Chatham House); joined cross-team workshops at OpenAI HQ to exchange governance process designs and synthesize learnings. (Site)

## ACHIEVEMENTS AND LEADERSHIP

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- **Macronix Science Award (19th) — Excellence Award (Top 20/661)**: Awarded for academic impact.
- **Founder & Lead, Google Developer Student Club (GDSC) NTNU**: Led a 24-member team; organized study groups, student-led courses, and industry exchange events with 1000+ total attendances in the first year.
- **Network & System Administration (NTU CSIE) — Hands-on Infra Labs**: Placed 1st in the final practical exam among 21 teams; built VMs (virsh), configured firewall rules, DNS, NFS, and LDAP-based account management.
- **Legacy Web Server Modernization — Ubuntu/WordPress**: Upgraded a 7+ year unmaintained NTNU Youth Club self-publication site; added backups, SSL, maintained deployments via Cloudflare & Oracle Cloud.

## SKILLS

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- **Languages** : Python, C/C++, TypeScript/JavaScript
- **Systems** : Linux/Unix, Git, Bash, Makefile, GitHub Actions, REST APIs, basic networking
- **Cloud/Web** : GCP, Oracle Cloud, Docker, Firebase (Firestore/Auth), SvelteKit, Cloudflare R2, Genkit