

# Joyce Lai

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## SUMMARY

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Motivated and proactive computer science student with a background in software development, machine learning, and automation. Pursuing more security related certifications in order to forward my interest in cybersecurity.

## EDUCATION

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**The University of Texas at Austin**, Austin, TX May 2026  
*Bachelor of Science, Computer Science*  
Honors: Turing Scholar  
Coursework (in progress): Data Structures and Algorithms Honors, Discrete Math Honors, Vector Calculus Honors

## SKILLS

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**Technical/Computer Skills:** *Advanced:* Linux, Python | *Intermediate:* Java, Assembly, C, HTML, UI/UX, Data Structures and Algorithms | *Beginner:* SQL, GoLang, Wireshark, Unit Testing, Machine Learning/AI, Android Development  
**Languages:** *Conversational Mandarin Chinese*  
**Certifications:** *Cisco Certified Networking Associate, IT Fundamentals+ CompTIA, eCPPTv2 (in progress)*

## EXPERIENCE

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**Metropia**, Houston, TX (Hybrid/Remote) June 2022 - August 2022  
*Software Engineering Intern*

- Automated GTFS data uploading and processing through Metropia's *machine learning* model to reduce processing overhead for real-time analysis
- Developed efficient algorithm to preprocess GTFS data and maintained *SQL* databases to facilitate app deployment which improved overall release time

**University of Texas at San Antonio**, San Antonio, TX August 2021 - June 2022  
*Research Assistant*

- Analyzed malicious network traffic through machine learning models to create automated detection framework
- Ported flowtbag, a PCAP processing script that extracts features for machine learning, from *GoLang* to *Python*

## PROJECTS

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- hacScraper:** Developed a personal *Android* application to check grades from the HAC grade system. Includes features to allow users to calculate hypothetical final averages
- timeLineMaker:** Created a *Python* script leveraging *Selenium* to complete a repetitive timeline assignment

## LEADERSHIP & COMMUNITY INVOLVEMENT

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**Taiwanese American Student Association (TASA)**, Austin, TX August 2022 - Present  
*External Vice President Junior Officer*

- Organize and manage TASA Night Market, an annual event with over 1000 attendees, and volunteer opportunities for members
- Communicate and maintain relationships with sponsors and other student organizations for networking events

**Information and Systems Security Society (ISSS)**, Austin, TX August 2022 - Present  
*Active Member*

- Participate in hackathons and security CTFs to gain more experience and practice in security
- Attend professional competitions and panels to obtain greater insight on the current cyber security climate

**Girl Scouts**, San Antonio, TX August 2021 - June 2022  
*Gold Award Project Developer*

- Designed programs and brochures to promote safe internet practices for highschoolers and families
- Mitigated personal online threats starting from educators through online seminars and in-person lessons
- conducted training on personal online threats to over 20+ educators