

Joyce Lai

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EDUCATION

The University of Texas at Austin (Austin, TX)

May 2026

Bachelor of Science, Computer Science

Honors: Turing Scholar | GPA 3.52

Coursework: Computer Architecture Honors, Data Structures and Algorithms Honors, Discrete Math Honors

EXPERIENCE

Metropia (Hybrid, Houston, TX)

June 2022 - August 2022

Software Engineering Intern

- Automated GTFS data uploading and processing through Metropia's *machine learning* model to reduce processing overhead from a few hours to near-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*

SKILLS

Technical/Computer Skills: *Advanced:* Linux/*nix, Python, Java, Data Structures and Algorithms | *Intermediate:* x86 Assembly, Shell Scripting, C, Git, HTML, UI/UX, Unit Testing | *Beginner:* C++, SQL, GoLang, Wireshark, Machine Learning/AI, Android Development

Languages: *Conversational Mandarin Chinese*

Certifications: *Cisco Certified Networking Associate, IT Fundamentals+ CompTIA, eCPPTv2 (in progress)*

PROJECTS

WebCrawler

- *Java* querying and crawling framework which allows for enumeration and simple querying of a subdomain
- Created an inverted index to efficiently store data that allowed for exact phrase querying

timeLineMaker

- Automated repetitive timeline assignment for AP Art History class: creation of digital timeline with 300+ entries
- *Python* script leveraging *Selenium* to automatically download image of each entry and create the entry, saving 4 hours of manual entry

LEADERSHIP & COMMUNITY INVOLVEMENT

Taiwanese American Student Association (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 (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