

ANUPAM KHARGHARIA

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Proactive and results-driven sophomore with a knack for picking up new technologies and possessing a strong acumen for problem-solving. Experienced in web security and shipping new products that address real-life challenges using technology, as demonstrated by my project: a user-centric browser extension that reduced phishing by over 80% in test cases. Exceptionally skilled in technical communication, as evidenced by my teaching assistant role and tech tutorials. I am available for internships from **early-May to late-August**. I aim to collaborate in technical teams, cultivate a robust professional network, and contribute to high-impact projects.

EDUCATION

Trinity College

GPA— 3.7/4.0

B.S in Computer Science & (TBD) Minor in Applied Mathematics and Music

Aug 2022 - May 2026

Relevant Coursework: *Data Structures and Algorithms, Intro to Computing (Object Oriented Programming); (current) Intro to Computing Systems; Software Design*

EXPERIENCE

Research Assistant

January 2023 - Present

Trinity College & University of Connecticut (R1 Research Institute), CT

- Developed a browser extension based on the Public Key Infrastructure (PKI) and web certificates using HTML, CSS, and JavaScript to bolster web security from scratch; reduced phishing by over 80% in initial tests.
- Created a comprehensive PKI and Security tutorial; utilized by 70% of lab members and all new hires.
- Produced extension mockups and wireframes in Figma and design schema in Lucidchart for weekly meetings.
- Designed a usability study and presentation on PKI for non-technical audiences; composed software documentation.

Teaching Assistant

August 2023 - Present

CPSC 215: Data Structures and Algorithms, Trinity College, CT

- Tutored 20+ students in Java for the Data Structures and Algorithms class.
- Led coding-lab sessions and assisted in grading of homework assignments and projects.

IT Desk Student Consultant

September 2022 - Present

Trinity College, CT

- Resolved over 300+ IT issues of clients through phone calls, desk/on-site visits (300+ tickets).
- Created guides and walk-through tutorials for non-technical clients on framework/language setups, sign-ins and password resets, video conferencing software, Moodle (LMS), and college network and VPN access.

PROJECTS

Usable PKI Browser Extension | *HTML, CSS, Javascript*

Research Project

- Implemented `.getSecurityInfo()` API in the extension to retrieve Public Key Infrastructure (PKI) info from scratch.
- Designed extension flow to detect phishing sites in over 80% of test cases using browsing history & web certificates.
- Organized weekly team meetings and distributed workload among team members.
- Future Work: to develop backend APIs to collect data from the extension.

Web Scraper & Course Scheduler Database | *HTML, CSS, Python, BeautifulSoup, pandas, SQL*

Independent Project

- Created a 5-entity relational database and Design Schema for the scheduler from scratch using SQL; wrote SQL queries.
- Created a Web Scraper using BeautifulSoup and Pandas to extract, process, and save data from college websites as `.csv`.
- Future Work: Implement API endpoints for user registration, CRUD operations for courses, and friend functionalities.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, HTML, CSS

Frameworks/Technologies: BeautifulSoup, Pandas, Git, Linux Shell, Kanban - Agile, Figma, VS Code, Microsoft Office (Outlook, Word, Excel, Powerpoint)

Leadership Positions: Residential Advisor; International Student Mentor; The Mill (Music House) General Body

Hobbies: Music (Digital Production, Piano, Guitar); Design (Illustrations, Poster Making, 3D Modelling (Blender- Limited Proficiency); Soccer