

Anupam Khargharia

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EDUCATION

Trinity College

B.S in Computer Science and a Minor in Applied Mathematics

2022-2026

GPA-3.69/4.0; Full-ride Presidential Scholar

Relevant Coursework: Data Structures and Algorithms;
(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; reduced phishing by over 80% in initial tests.
- Created a comprehensive PKI and Security tutorial, aiding new lab hires' understanding; utilized by approximately 70% of lab members and all new hires.
- Produced extension mockups in Figma and design schema in Lucidchart for weekly meetings.
- Designed a usability study and PowerPoint presentation on PKI for non-technical audiences; composed software documentation for the browser extension.

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). Assisted with multiple live office/classroom tech issues.
- 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.
- Maintained and kept track of tech equipment, issued loaner ID cards to clients, updated shelf numbering and shelf reports, and shipped items to other colleges.

PROJECTS

Usable PKI Browser Extension

Research Project

HTML, CSS, Javascript

- Implemented .getSecurityInfo() API in the extension to retrieve Public Key Infrastructure (PKI) info.
- Designed the extension flow to detect phishing sites using browsing history and website certificates. Successfully detected phishing sites in over 80% of cases.
- Organized weekly team meetings and distributed workload among team members.

Web Scraper and Course Scheduler Database

Independent Project

HTML, CSS, Python (BeautifulSoup and pandas), SQL

- Designed a 5-entity relational database for a college course scheduler from scratch using SQL.
- Created a Web Scraper to extract course data from college websites. Used BeautifulSoup for parsing content and pandas to process it and save data as .csv.

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

Frameworks/Technologies: BeautifulSoup, pandas, Git, Figma, zsh/Bash

Spoken Languages: English, Hindi, Assamese, Bengali (Limited Proficiency)

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

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