

# CATHERINE FANG

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## EDUCATION

**University of Texas at Austin**, Austin, TX

*B.S.A. in Computer Science and B.A. in Psychology, Minor in Business*

May 2023

- GPA: 3.90
- **Relevant Coursework:** Algorithms & Complexity, Symbolic Programming, Principles of Computer Systems, Matrices & Matrix Calculations, Computer Organization & Architecture, Introduction to Probability & Statistics, Data Structures, Discrete Math for Computer Science

## TECHNICAL SKILLS

**Languages:** Java, C, Python, HTML, CSS, and JavaScript

**Tools:** Git, Figma, pandas

## HONORS & AWARDS

**1st Place Overall and PWC Most Social Impact Winner of UT Women in Computer Science Hackathon**

02/2020

- Collaborated with 3 partners for 12 hours to create and present "Free to Help", a product that increases the amount of community service people can contribute in their free time.

**Member of UT Women in Natural Science Program**

04/2019 – Present

- Selected for being a high-achieving woman pursuing a career in science.
- Stimulated scientific interest among girls in grades K-12 through volunteering and leadership roles.

## EXPERIENCE

**Principles of Computer Systems Teaching Assistant**, Austin, TX

*UT Department of Computer Science*

08/2021 – Present

- Lead weekly discussion sections for 30+ students to reinforce concepts including virtualization, concurrency, and persistence.
- Work closely with the professor and other teaching assistants in answering questions throughout lectures, office hours, and Ed Discussion.
- Provide academic support to students by presenting detailed recommendations and evaluations on assignments.

**Summer Immersion Program Teaching Assistant**, Remote

*Girls Who Code*

06/2021 – 07/2021

- Delivered daily lessons and activities for a diverse group of 25 students while troubleshooting questions, reviewing misconceptions, and providing personalized debugging advice.
- Fostered a positive virtual learning environment and generated an interest in coding through the values of bravery, sisterhood, and activism.

**Undergraduate Researcher (Advisor: Dhivya Arasappan)**, Austin, TX

*UT Freshman Research Initiative: Introduction to Computational Biology*

01/2020 – 05/2020

- Analyzed large-scale biologic datasets using next generation sequencing technologies to study the gene expression patterns associated with amyotrophic lateral sclerosis (ALS) disease.
- Investigated a potential treatment targeting both ALS and Multiple Sclerosis (MS) disease by identifying similar differentially expressed genes.

## PROJECTS

**Free to Help**

02/2020

- Developed a Google Chrome extension using JSON to display nearby volunteer opportunities that can be merged with users' Google Calendars.
- Assisted with the design for a prototype on Adobe XD of an extended app where students, organizations, and schools can verify attendance at community service events.

## ACTIVITIES

**Mentor**, Austin, TX

*UT Women in Computer Science*

08/2020 – 05/2021

- Provided guidance in exploring career opportunities and setting professional goals by scheduling individual meetings with group members and carrying out monthly presentations.
- Coordinated events for members to form a support system and establish meaningful connections.

**Peer Tutor**, Austin, TX

*Principles of Computer Systems, Computer Organization & Architecture*

08/2020 – 05/2021

- Met with one designated student weekly to help clarify course content and promote the use of beneficial study strategies.
- Provided feedback on assessments and practice questions through the reflection of notes from class meetings and textbook readings.