

CATHERINE FANG

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EDUCATION

University of Texas at Austin, Austin, TX

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

GPA: 3.94 / 4.0

TECHNICAL SKILLS

Programming: Java, C, Python, ReactJS, R, SQL, HTML, CSS, JavaScript, LISP

Tools: git, Figma, pandas, numpy, scikit-learn

HONORS & AWARDS

Qualtric's Best Data Visualization Tool Winner of UT Women in Computer Science Hackathon

Collaborated with 2 partners to create and present "ShopGreen", a product that allows users to track their shopping habits and find more sustainable options to build a well-rounded wardrobe.

Challenge Winner of JP Morgan Chase + Girls Who Code Work Prep Buildathon

Collaborated with 2 partners to create and present "Ms. Entrepreneur", a product that champions female and non-binary entrepreneurs by providing networking and funding opportunities for their business ventures.

1st Place Overall and PwC's Most Social Impact Winner of UT Women in Computer Science Hackathon

Collaborated with 3 partners to create and present "Free to Help", a product that increases the amount of community service people contribute in their free time through efforts to raise awareness and convenience.

EXPERIENCE

Software Engineer, Charlotte, NC

Bank of America

2023 – PRESENT

- Assist with the design and development of a dashboard that monitors and records patching requirements across the organization.
- Compile daily logs of internal website operations to ensure proper functioning.
- Created recipes for 3 internal applications to facilitate a proof of concept with Moderne.io that tests the automation of code security, quality, and upgrades.

Data Science Intern, Austin, TX

UT Department of Psychology

2022

- Developed and updated code for determining optimal parameters of the Self Referent Encoding Task that measures depression using cross-validation.
- Conducted multiverse analysis to create and compare between 64 choice combinations based on different decisions made during processing.

Principles of Computer Systems Teaching Assistant, Austin, TX

UT Department of Computer Science

2021

- Led weekly discussion sections for 30+ students to reinforce concepts including virtualization, concurrency, and persistence.
- Provided academic support to students by presenting detailed responses and feedback throughout lectures, office hours, and Ed Discussion posts.

Summer Immersion Program Teaching Assistant, Remote

Girls Who Code

2021

- Delivered daily lessons and activities for a diverse group of 25 students while correcting 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, Austin, TX

UT Freshman Research Initiative: Introduction to Computational Biology

2020

- Analyzed large-scale biologic datasets using next-generation sequencing technologies to study gene expression patterns associated with amyotrophic lateral sclerosis (ALS) disease, then investigated a potential treatment targeting both ALS and Multiple Sclerosis (MS) diseases.

ACTIVITIES

Mentor, Austin, TX

UT Women in Natural Science, UT Women in Computer Science

2020 - 2023

- Provided guidance to members in exploring career opportunities, setting professional goals, and establishing a support system through scheduling individual meetings and hosting monthly presentations.

Peer Tutor, Austin, TX

Principles of Computer Systems, Computer Organization & Architecture

2020 - 2021

- Met with a designated student biweekly to 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 lectures and textbook readings.