

Sarah Fedorchak

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Education

The University of Texas at Austin

May 2026

Bachelors of Science in Computer Science, Minor in Business

GPA: 3.8

University Honors: Fall 2022, Spring 2023, Fall 2023, Spring 2024

Relevant Coursework: Data Structures, Computer Organization and Architecture, Operating Systems, Machine Learning

Languages/Technologies: Java, Python, C/C++, ReactJS, Visual Studio Code, Firebase, GitHub, Figma, Microsoft 365

Experience

Department of Computer Science at UT Austin

August 2024 – Present

Undergraduate Teaching Assistant

Austin, TX

- Hold weekly office hours to support **300+ students**, providing individualized guidance on coding challenges and reinforcing key concepts in data structures and algorithms, resulting in attendees improving by about **one letter grade**
- Evaluate Python coding assignments and provide actionable feedback to help students enhance their coding skills
- Assist during lectures by proctoring quizzes and answering student questions to enhance understanding and engagement

Huntsman Corporation

May 2024 – August 2024

Data Analytics Intern

The Woodlands, TX

- Developed an **AI digital assistant** to address the **40%** of low-priority IT ticket incidents that previously went unresolved
- Analyzed IT ticket data using **natural language processing** and IBM watsonx platform to create a **custom AI model**
- Increased customer ticket creation efficiency by **50%** and IT agent productivity by **20%**, streamlining workflow processes

Projects

Pintos Operating System | C

- Developed **multi-threading functionality** in a toy OS to manage kernel concurrency and optimize thread scheduling
- Implemented **page replacement** and **swapping algorithms** to improve the virtual memory management system
- Extended the file system to support file operations, including implementing file descriptors, system calls, and file locking

PlantIt Green | Python, React.js, HTML, CSS, Firebase, Figma

- Engineered a **Python web scraping algorithm** to gather data on 3,000+ plant species and export it to a CSV file
- Performed comprehensive **data cleaning** and **feature engineering** utilizing **pandas data frames** to prepare the dataset
- Collaborated on the front-end of an MVP using **ReactJS**, implementing **Figma** designs to create a user-friendly interface

Campus Involvement & Activities

Texas Convergent

January 2023 - Present

Tech Member

- Engaged in the SDLC by building MVPs, crafting business proposals, and delivering pitches in a hands-on team environment
- Presented a live demonstration of the application during Demo Day, winning Best Design award out of all the build teams

Women in Computer Science

August 2022 - Present

Outreach Member

- Actively participating in outreach programs, professional development workshops, academic initiatives, and social events designed to support and encourage women's engagement and continuous involvement in the field of computer science
- Hosted a high school student, providing insights into my work as a UTCS student and encouraging her interest in technology

Alpha Chi Omega

August 2022 - Present

Intellectual Development Committee Member

- Providing resources and guidance to 250 diverse chapter members on networking, career advice, and interview preparation
- Initiated a mentorship program connecting younger members with upperclassmen in their major, to offer guidance on course selection, study strategies, and opportunities for involvement in clubs and research, thereby fostering academic success

helloFinance Virtual Summer Series

July 2024

Selected Participant

- Participated in a two-week virtual series that included 15+ hours of programming across six nights focused on an introduction to financial services, and exploring how technology contributes to innovations in the financial industry
- Engaged with professionals from 17 firms, and a lateral network of 1500+ students from over 300 schools across the country
- Added to my career prep toolkit through completing training on company research, in-person and video interviews, resume development, and telling my unique story and experience through the "quick pitch" process