

# Sophia Fu

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## Education

### Northeastern University - Khoury College of Computer Sciences

Boston, MA

*Bachelor of Science in Computer Science, Minor in Computational Social Science*

*GPA: 3.83*

**Relevant Coursework:** Object Oriented Design, Database Design, Computer Systems, Algorithms and Data, Discrete Structures

**Involvements:** Northeastern Electric Racing (Software Team), NUROVER (Software Team), Oasis (Software Developer), CoSMO Peer Mentoring (Outreach Chair), Northeastern Women in Tech, Asian Student Union

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## Skills

**Languages:** Java, JavaScript, Typescript, Python, C, HTML, CSS, SQL, R, DrRacket

**Frameworks and Libraries:** React, Express.js, Flask, NumPy, Pandas

**Technologies and Tools:** Docker, Git, MySQL, Supabase, NPM/Yarn, JUnit

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## Experience

### The Brain ImPACT Lab

Boston, MA

*Undergraduate Research Assistant*

*September 2024 – Present*

- Facilitate data collection for TBI clinical trials and write summarized reports following each session for a 12-week period.
- Collaborate with researchers in studying data management and applying computational modeling of the brain using R.

### Northeastern Programming Lab

Boston, MA

*Front Desk Proctor*

*April 2024 – Present*

- Improve operational efficiency by engineering documentation system for an average of 100+ weekly walk-ins, streamlining a range of student inquiries including package pickup, locker access, and other programming assistance.

### Computer Science Mentor Organization

Boston, MA

*Outreach Chair*

*February 2024 – Present*

- Increase organizational visibility and participation by delivering communications to 1000+ students and various campus-wide promotional activities, increasing club engagement by 750% within 6 months.
- Develop comprehensive guides for students to explore career paths for students within Khoury College.

### Knack

Boston, MA

*Tutor for CS2500 (Fundamentals of Computer Science I)*

*March – August 2024*

- Tutored students in fundamental concepts: multiple complex inputs, trees, lambda/local, higher-order functions, recursion.
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## Projects

[EduShare Hub](#) | Python, Flask, AppSmith, MySQL, Docker

April 2024

*An educational resource sharing web application*

- Led a 4-member team in engineering an educational resource sharing web app, managing 40+ CRUD operations in the MySQL database, enabling seamless addition, alteration, and removal of educational resources.
- Utilized Docker containers to encapsulate the application, ensuring a consistent and isolated runtime environment.
- Incorporated AppSmith UI for dynamic navigation and interactive dashboards, enabling real-time updates to the MySQL database and offering users live tracking of resource availability.

[MineSweeper Clone](#) | Java, Northeastern Image Library

March 2024

*A Java game that recreates Minesweeper*

- Implemented core features of Minesweeper: flood-fill effect, winning/losing features, difficulty level and score keeping.
- Utilized Northeastern Image Library to implement game logic and with visual effects.

[Wardrobe Wizard](#) | React, HTML, CSS, JavaScript, Supabase

January - April 2024

*A full-stack web application that virtualizes and curates your wardrobe*

- Developed a database of user inputted wardrobe items and implemented user authentication.
  - Dynamically populated user's wardrobe a user logs in, allowing access to their wardrobe and outfit generation.
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## Honors and Awards

Texas High School Ideas Challenge, Finalist (2021)

Rice Entrepreneurship Business Plan Competition, Top Four (2020)

Microsoft Innovation Challenge, Top Four (2020)

UH Bauer/Wolf Center for Entrepreneurship Think Tank Business Plan Competition, Finalist (2020)