

# Alyssa Feinberg

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## EDUCATION

- Brown University**, B.S. Computer Science, B.A. Linguistics, GPA: 4.0/4.0 May 2027
- Relevant Coursework: Introduction to Object-Oriented Programming (A), Program Design with Data Structures and Algorithms (A), Introduction to Linguistics (A), American Sign Language 100 & 200 (A)
- Newton South High School**, GPA: 4.0/4.0 Jun 2023

## RESEARCH & WORK EXPERIENCE

- Brown University**, *Undergraduate Research Assistant* Feb 2024 - Present
- Working with Professor Andy van Dam's graphics research group on Dash, a web-based application sponsored by Adobe for interacting with multimedia documents. Documentation accessible here: <https://brown-dash.github.io/Dash-Documentation/>
- Boston University**, *Undergraduate Research Assistant* Apr 2024 - Present
- Working with Dr. Najoung Kim as a research assistant in the Dept. of Computer Science and the Dept. of Linguistics to analyze the ability of large language models to track state changes of discourse entities expressed in natural language.
- LEX Language Project**, *Coding & Language Intern* Jun 2021 - Jun 2023
- Employed HTML, JavaScript, and CSS to increase accessibility for the LEX Language Project website.
  - Co-organizer for LEXFest (Nov. 2021), an international virtual conference for language acquisition that drew 300+ attendees.
- Signed Languages Research Laboratory, University of Southern Maine**, *Research Assistant* Jun 2022 - Sep 2022
- Conducted research on Nicaraguan Sign Language (NSL) with Linguistics Professor Judy Shepard-Kegl.
  - Analyzed recordings of native NSL signers to explore patterns of language emergence and acquisition across generations.

## SELECTED PROJECTS

- Dash Starter Project** Jan 2024 - Feb 2024
- Created a web-based application built for organizing, editing, linking, and analyzing multimedia documents and collections using React, Typescript, MobX, and CSS.
- Beat Speech** Sep 2022 - Jun 2023
- Produced an app using Swift and Firebase to help children with speech delays improve their speech production through music therapy techniques; collaborated with the Institute for Music and Neurologic Function.
  - 2023 Technovation Girls North America Senior Division Regional Winner** (out of 2000+ submissions).
- CommunAphasia** Sep 2021 - Jun 2022
- Created an icon-based messaging system and speech therapy tool using Swift and Firebase to help improve communication for people with aphasia; collaborated with Boston University aphasia researcher Claire Cordella.
  - 1st place, **2022 Congressional App Challenge**; presented app to members of Congress at the Capitol in Washington D.C.
- ServUs** Sep 2020 - Jun 2021
- Built an app using Swift and Firebase that supports small businesses by connecting them with their local community.
  - 2<sup>nd</sup> place, **2021 Congressional App Challenge**.

## LEADERSHIP & ACTIVITIES

- Brown University Women in Computer Science**, *Co-Tech Chair and First-Year Representative* Sep 2023 - Present
- Partner with technology companies and faculty to host technical workshops and career panels for 300+ female students.
  - Organize bonding events and mentorship programs for club members to foster a tight-knit community.
- TEDxBrownU**, *Curation Associate* Sep 2023 - Present
- Interview and select speakers for the annual TEDxBrownU Conference; work with speakers to revise their speeches and perfect delivery through 1-on-1 rehearsals.
- Hack@Brown**, *Workshops Team* Sep 2023 - Present
- Create and present technical workshops on developing apps using Xcode and socially responsible computing.
- Technovation Girls**, *National Ambassador, President Newton Chapter, and Team Leader* Sep 2019 - Jun 2023
- Held workshops to teach girls how to code, including basic data structures and object-oriented programming.
  - Coordinated and oversaw multiple teams in creating mobile apps and business plans that address problems in the community.
- Varsity Speech & Debate Team, Newton South High School**, *Captain, Inclusion Ambassador, and Coach* Sep 2020 - Jun 2023
- Coached and provided feedback on speech writing and performance to novice and varsity team members.
  - Created presentations and led conversations around inclusivity on the team and in the MA Speech and Debate League.

## SKILLS

- Technical Languages:** React, TypeScript, HTML/Javascript/CSS, MobX, Java, Python, Swift, C, C++
- Other Languages:** Spanish (professional working proficiency), American Sign Language (beginner)