

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 Department of Computer Science, *Research Assistant* Feb 2024 - Present

- Work with Professor Andy van Dam on [Dash](#), a web application sponsored by **Adobe**, to develop AI-powered learning tools
- Build a pronunciation evaluator using **ML models** to provide targeted feedback for language improvement
- Create a system that generates flashcard decks and provides tailored practice sessions by calling **OpenAI APIs**
- Implement 2 **REST APIs** with **Flask** and **Python** and build the frontend using **React**, **TypeScript**, **CSS**, and **MobX**

Boston University Department of Computer Science and Linguistics, *Research Assistant* Apr 2024 - Present

- Work with Dr. Najoung Kim to analyze the ability of **LLMs** to track state changes of entities expressed in natural language
- Write **Python** programs using **PyTorch** and **Pandas** to analyze 30+ language models across various data splits, evaluating the effects of additional code and math training, as well as alignment tuning, on entity tracking performance

LEX Language Project, *Coding & Language Intern* Jun 2021 - Jun 2023

- Employed **HTML**, **JavaScript**, and **CSS** to increase accessibility and inclusivity for the LEX Language Project [website](#)
- Co-organizer for LEXFest (Nov. 2021), an international virtual conference for language acquisition that drew 300+ attendees

SELECTED PROJECTS

[Brown University Women in Computer Science Website](#) Jun 2024 - Present

- Rebuild the Brown University WiCS website using **React/JavaScript**, **Typescript**, **Bootstrap**, and **CSS**, while integrating **Google Cloud APIs**; communicate with WiCS E-Board to review and incorporate feedback
- Spearhead the development of the resources and blog pages to encourage female engagement in the tech industry

Beat Speech Sep 2022 - Jun 2023

- Led and worked with 2 developers to create an app using **Swift** and **Firestore** 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 **Firestore** 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.

LEADERSHIP & ACTIVITIES

Brown University Department of Computer Science, *Undergraduate Teaching Assistant* Aug 2024 - Present

- Support 350+ students in developing coding skills for the Introduction to Object-Oriented Programming course
- Improve course material, re-design handouts, lead office hours and lab sections, and grade projects

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

Technovation Girls, *National Ambassador, President Newton Chapter, and Team Leader* Sep 2019 - Jun 2023

- Conducted workshops to teach young women how to code, including object-oriented programming and basic data structures
- Coordinated and oversaw 5 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 30+ 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:** Python, Java, Swift, C, C++, TypeScript/JavaScript, HTML, CSS
- **Technologies:** React, Flask, REST APIs, Django, MobX, Bootstrap, Git, MongoDB, Firebase, PyTorch, Pandas
- **Other Languages:** Spanish (professional working proficiency), American Sign Language (beginner)