

# Eli Berkowitz

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## WORK EXPERIENCE

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### Software Engineer

Apr 2020 - Feb 2024

*Benchling*

*San Francisco, CA*

- **Web development:** Implementing full-stack features for Benchling, a platform that accelerates Life Sciences R&D.
- **Project lead:** Co-leading cross-team projects for building new data analysis product features.
- **Guilds:** Participating in Design Systems and Product Analytics guilds, contributing to guidelines and code reviews.
- **Mentor:** Acting as an onboarding mentor for new engineers on my team.
- **Platform improvements:** Independently driving several developer experience improvements, including Typescript and linting upgrades, upgrading and adding new UI Library components, and implementing a hosted Storybook.

### Software Engineer

Sept 2019 - May 2020

*Bard College Citizen Science*

*Annandale-on-Hudson, NY*

- **Web development:** Built a web application for several hundred students to upload, query, and manage image-based scientific observations.

### Head Teaching Assistant

Jun - Dec 2018

*CSCI 0111 - Computing Foundations: Data - Brown University*

*Providence, RI*

- **Course development:** Developed assignments for a new introductory computer science course at Brown.
- **Leadership:** Co-led a team of undergraduate teaching assistants.
- **Student feedback:** Received very positive feedback from students. Written feedback available upon request.

### Teaching Assistant

2017 - 2019

*Computer Science Department - Brown University*

*Providence, RI*

- **Student instruction:** Held weekly office hours, ran learning labs, mentored students during projects, and answered student questions online.
- **Course administration:** Graded student coursework and helped improve assignments and projects.
- **Courses:** TA'd three different Computer Science courses.

### Mentor, Trip Leader, Manager

Jan 2017 - May 2019

*Brown Outdoor Leadership Training (BOLT) - Brown University*

*Providence, RI*

- **Mentor:** Trained leaders in facilitation, mentorship, and technical skills to lead backpacking trips (2018, 2019).
- **Leader:** Received 200 hours of training to lead a 5 day backpacking trip with 8 college students.
- **Food Manager:** Purchased, organized, and divided food for 18 backpacking trips in the White Mountains.

### Research Experiences for Undergraduates Student Intern

Jun - Aug 2016

*LIGO Scientific Collaboration, Louisiana State University, Dr. Gabriela Gonzalez (mentor)*

*Baton Rouge, LA*

- **Data analysis:** Characterized transient noise in the LIGO detectors.

## PROJECTS

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**Downup:** Built and maintain a hobby website (downup.app) for communities to do goal-oriented challenges together. The December 2023 challenge has totaled 37,000 collective pushups! Stack: Next.js, Postgres, Redis, Twilio.

**Brown University Grading App:** Wrote software and a web application to manage assignment hand-in and grading for computer science courses at Brown, used by over 500 students in three different courses. Stack: Flask, JQuery.

**Exosim:** Wrote an exoplanet simulator (exosim.netlify.com). Uses to-scale physics and 3D rendering to show planetary systems and star light curves as planets obscure them. Allows customized stars, planets and moons. Stack: P5.js.

## EDUCATION

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**Brown University:** Providence, RI

Sep 2015 - May 2019

*Bachelors of Science in Applied Mathematics*

## SKILLS & INTERESTS

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**Programming Languages:** Python, Javascript/Typescript, Java, Scala, MATLAB, Bash, Arduino (C).

**Frameworks:** Google Cloud Platform, React, Flask, Postgres, GraphQL, Git, Docker, p5.js, jquery, L<sup>A</sup>T<sub>E</sub>X.

**Languages:** English (native), Portuguese (advanced), German (beginner).

**Music:** Piano (classical), Flute (classical).

**3D Modeling:** Maya.