

ELLIOT BOBROW

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EDUCATION

Harvey Mudd College — *B.S. Computer Science and Mathematics*

Expected graduation May 2027

Awards: Harvey S. Mudd Merit Scholarship, Dean's List all eligible semesters

Activities: Without a Box Improv, Board Game Club Officer (Spring 2024), MuddEscapes: designing and building escape room (Spring 2024)

Windward School — *High School Diploma*

Graduated May 2023

Awards: Dean's List all four years, AP Scholar with Distinction

Activities: Windward Improv Troupe, Studio for Writing and Rhetoric Consultant, STEAM Scholar

SKILLS

Languages: Rust, Coq, Haskell, Racket, C++, Java, JavaScript, TypeScript, Python, HTML, SQL, x86_64 Assembly, Prolog, APL, Mathematica.

Technologies: Microsoft Office, Figma, Linux, Vim, \LaTeX , React, Node.js, Docker, Pandas, NumPy, Git, Handlebars.

EXPERIENCE

Harvey Mudd College — *Grutor (Teaching Assistant)*

August 2024 - December 2024

- Tutored freshmen in CS 42—the advanced introduction to CS class. Provided deeper understanding of content, advice for writing and debugging code, and help studying for exams.
- Worked with other grutors to coordinate grading schedule.
- Graded homeworks for style and correctness.

UPenn REPL — *Research Student*

May 2024 - August 2024

- Worked with Professor Stephanie Weirich and PhD student Yiyun Liu on formalizing σ -calculus semantics and logical relations in Coq
- Took accelerated introduction to Coq and Programming Languages with other students
- Participated in weekly reading club of important papers in the field, leading discussion on linear logic
- Attended weekly seminars and PLClub meetings to learn about current research, culminating in REPL students presenting our work at PLClub

Coq

Bluestone Health — *Intern*

June 2023 - July 2023

- Performed competitive analysis and research to help pick new electronic medical records system.
- Wrote scripts to analyze monthly client data, saving about 3 hours per month.
- Tested web app.
- Worked on UI/UX redesigns, designed promotional content, flyers, and bio sheets.

Python / Excel / Figma

Rust Clippy — *Open Source Contributor*

March 2021 - March 2023

- Collaborated with developers around the world on the official linting tool for Rust, with over 10,000 stars on GitHub.
- Fixed bugs, added features, and suggested improvements.

Rust / Git

USC SHINE — *Research Assistant*

June 2022 - July 2022

- Worked with graduate student and professor in their lab.
- Used unsupervised machine learning to cluster single-cell RNA sequencing data.
- Presented poster at poster session; poster available at <https://viterbik12.usc.edu/wp-content/uploads/2022/08/S22-Bobrow-E-Poster-Final.pdf>.

Python / NumPy

SmartSoft — *Intern*

July 2021 - August 2021

- Performed competitive analysis, sat in on developer meetings.

Excel

Schoop — *Assistant Full Stack Developer*

February 2021 - May 2021

- Worked on a webapp with another student from my highschool to store student class schedules.
- Learned to navigate existing codebase, communicated with lead developer.
- Added integration with Google Calendar to retrieve and display additional events such as meetings.

Javascript / Node.js / Handlebars / SQL