

Morris Plains, NJ  
United States

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### Education

#### Massachusetts Institute of Technology (MIT)

- **Bachelor of Science (S.B.) in Computer Science and Engineering**

Sep 2019 - June 2023  
Cambridge, MA

Relevant coursework:

Computer Language Engineering; Database Engineering;  
Formal Reasoning about Programs; Theory of Computation;

- **Masters of Engineering (MEng.) in Computer Science and Engineering**

Aug 2023 - Sep 2024  
Cambridge, MA

Thesis title: "Feasibility of Vector Instruction-Set Semantics Using Abstract Monads"

### Work Experience

#### Massachusetts Institute of Technology (MIT)

*Undergraduate Teaching Assistant, 6.042/6.1200 [Mathematics for Computer Science]*

Sep 2022 - Dec 2022  
Cambridge, MA

- Ran office hours for 4 hours a week, helping students with homework and understanding of concepts.
- Helped write problem sets, and grade midterm and final exams, for 5 hours a week.

#### Massachusetts Institute of Technology (MIT)

*Grader, 6.046/6.1220 [Design and Analysis of Algorithms]*

Sep 2021 - May 2022  
Cambridge, MA

- Graded homework for roughly 20-30 students, for 5 hours a week.

#### Astranis

*Flight Software Team - Intern*

June 2021 - Aug 2021  
San Francisco, CA

- Rewrote portions of a Python/C++ codebase to be more asynchronous.
- Tested changes on both software and mock hardware.

#### Eta Kappa Nu, Beta Theta Chapter

*Tutor, 6.042 [Mathematics for Computer Science]*

Sep 2020 - Dec 2020  
remote

- Tutored 3 students, for 3 hours a week.

### Research Experience

#### Massachusetts Institute of Technology (MIT)

*Research Assistant, Programming Languages and Verification Group*

Sep 2023 - present  
Cambridge, MA

- Continuing work on implementation of compiler optimizations for Bedrock2 (<https://github.com/mit-plv/bedrock2>), a verified low-level programming language, under supervision of Prof. Adam Chlipala and Samuel Gruetter. Worked primarily with Coq.

#### Computer Science and Artificial Intelligence Laboratory (CSAIL @ MIT)

Sep 2022 - Aug 2023  
Cambridge, MA

*Undergraduate Researcher*

- Worked on implementation of compiler optimizations for Bedrock2 (<https://github.com/mit-plv/bedrock2>), a verified low-level programming language, under supervision of Prof. Adam Chlipala and Samuel Gruetter. Worked primarily with Coq.

### Leadership Experience

#### MIT Musical Theater Guild (MIT MTG)

*President*

Oct 2023 - May 2024

- Organized weekly meetings to coordinate with 6+ undergrads, grads, and alums on MTG's Exec Board, which supports the logistics needs for putting on a musical theater production twice a semester, with audiences between 20 and 100 community members per night.

**Massachusetts Institute of Technology**

*Next House Campus Preview Weekend / Residence Exploration Chair*

- Ran 4 series of 5+ in-person and remote events for welcoming prospective / first-year students to MIT.
- Collaborated planning with a team of 5+ students, managed 10+ volunteers, attended by 10-60 students.

Apr 2020, Sep 2020,  
Aug 2021, Aug 2022  
Cambridge, MA

**Next Haunt**

*Puzzle Team Member*

- Collaborated planning with 5+ students in implementing puzzles for annual student-run escape room/haunted house hybrid visited by roughly 100+ students per year over the course of 2 weekends.

Sep 2021 - Nov 2021,  
Jul 2022 - Nov 2022  
Cambridge, MA