

Arthur De Belen

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Education

Massachusetts Institute of Technology (MIT) // SB in Computer Science and Engineering

SEP 2019 - JUN 2023, CAMBRIDGE, MA

Relevant coursework: Computer Language Engineering; Database Engineering; Foundations of Computer Security; Design and Analysis of Algorithms; Representation, Inference, and Reasoning in AI

Skills

Programming Languages

Go/Golang	Wrote with 2 classmates a compiler for a semester-long class project. Distributed systems class, partial completion.
C/C++	High school C++ class. Internship. Operating systems class, partial completion.
Python	Internship. Semester-long Python class.
Rust	Self-taught. Learning using Advent of Code and similar.

CS Experience

Intern, Flight Software Team // Astranis

JUNE 2021 - AUG 2021, SAN FRANCISCO, CA

Refactored and tested spacecraft software components in Python and C++, to be more asynchronous. Wrote convenience methods for working with Google Protobufs.

Undergraduate Research Assistant // MIT

SEP 2022 - JAN 2023, CAMBRIDGE, MA

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

Undergraduate Teaching Assistant // MIT

SEP 2022 - DEC 2022, CAMBRIDGE, MA

Helped management of class 'Mathematics for Computer Science' at MIT, 10 hours a week. Consisted of helping write problem sets and exams, grading midterm and final exams, and running office hours 4 hours a week.

Grader // MIT

SEP 2021 - MAR 2022, CAMBRIDGE, MA

Graded homework for subject 'Design and Analysis of Algorithms' at MIT, 5 hours a week.

Tutor // MIT Eta Kappa Nu

SEP 2020 - DEC 2020, CAMBRIDGE, MA

Tutored 3 hours a week for subject 'Mathematics for Computer Science'.

**Leadership
Experience**

Next House Campus Preview Weekend / Residence Exploration Chair // MIT

APR, SEP 2020; AUG 2021; AUG 2022, CAMBRIDGE, MA

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.

Next Haunt Puzzle Team / MIT

SEP - NOV 2021; JULY - NOV 2022, CAMBRIDGE, MA

Collaborated planning with 5+ students in implementing puzzles for annual student-run escape room/haunted house hybrid.