

Maeve Chen

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EDUCATION

Massachusetts Institute of Technology

B.S. in Electrical Engineering and Computer Science

Cambridge, MA

September 2023 - May 2027

- **Minors:** Civil Engineering and Linguistics
- **GPA:** 4.4/5.0
- **Relevant Coursework:** Data Structures and Algorithms, Computation Structures, Discrete Math, Dynamic System Modeling and Control Design, C and Assembly, Linear Algebra, Fundamentals of Programming (Python)

EXPERIENCE

MIT Computer Science and Artificial Intelligence Laboratory

Research Intern

Cambridge, MA

September 2024 - Now

- Prototyped Machine Learning model using Julia to improve algorithm selection for SmartSolve, an effective linear algebra computation software, by analyzing matrix patterns and features.

MIT Concrete Sustainability Hub

Research Intern

Cambridge, MA

January 2024 - February 2024

- Created sample road efficiency rating system based on pavement greenhouse gas emissions to demonstrate use cases for a pavement life cycle assessment software.

NYU Center for Urban Science and Progress

Research Intern

Brooklyn, NY

November 2021 - August 2022

- Collected LIDAR point cloud data to connect underground infrastructure with above-ground indicators.
- Conducted 3 community workshops on LIDAR scanning and digital twins to educate the local Sunset Park population on plans to improve neighborhood infrastructure.

ACE Mentorship Program

Mentee

New York, NY

November 2021 - June 2022

- Designed a renovation plan for the Major Deegan Expressway and Roberto Clemente State Park in the Bronx, New York to restore neighborhood interconnectivity. In collaboration with NYC DDC & NYC SCA.

Rainbow House Learning Center

Tutor

Brooklyn, NY

December 2018 - June 2019

- Tutored 20+ elementary school students in mathematics, English, and science, improving student performance.
- Planned and supervised field trips to nearby parks, leading communications and safety plans.

LEADERSHIP AND EXTRACURRICULARS

MIT Tech Consulting Club

Member

Massachusetts Institute of Technology

September 2024 - Now

- Improved functionality and user experience for security and login components of the club website.

Society of Women Engineers (SWE)

Member

Massachusetts Institute of Technology

September 2023 - Now

Science Olympiad

President

Brooklyn Technical High School

July 2021 - June 2023

- Managed a team of 50+ members, coordinating teaching for 23 subjects, reinforcing team bonding, and strategizing to advance the team as far as possible in competition.

BTHS American Society of Civil Engineers Chapter

President

Brooklyn Technical High School

November 2021 - June 2023

- Coordinated weekly meetings to promote interest in civil engineering through city building projects, CAD modeling, and lessons on civil engineering principles.
- Hosted STEM Pathways Consortium for middle schoolers to explore civil engineering career pathways.

SKILLS

Programming: Python, Julia, React, JavaScript, HTML, CSS, C, Assembly, VSCode, Git, MATLAB

Languages: Mandarin, Spanish

Certifications: Revit, AutoCAD, Certified Surveying Technician I, ACI Concrete Field Testing Technician