

University Address

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Home Address

149-43 35th Ave 5D
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Education

Massachusetts Institute of Technology (MIT)

May 2026/2027

Cambridge, MA

- BS in Computer Science Engineering
- MEng in Electrical Engineering and Computer Science
- Relevant Coursework: Algorithms, Software Performance & Development, Machine Learning
- Python, C, C++, HTML, CSS, JS/TS, Threejs, Django, OpenGL, Git

Experiences

Full-Stack Software Developer & Project Manager

May 2025 - Present

STEP Research Lab

Cambridge, MA

- Led daily standups with a team of 10 to develop an educational block-based programming game.
- Revamped the 3D Rendering Engine to improve performance by over 20% to handle millions of agents.
- Redesigned the lighting system, viewport, and model engine for code maintainability and bug-safety.
- Added user-facing features with backend integration using Django and MySQL database.
- Installed SSL certificate on an Apache Mediawiki server to provide HTTPS connection.
- Improved vertex and fragment shaders using OpenGL language for better textures and GPU usage.
- Refactored legacy renderer codebase to modern ES6+ modules to adapt to the R155 Threejs library.

System Administration Officer

April 2025 - Present

MIT EMS

Cambridge, MA

- Maintained servers and communicated with fellow officers to assess and implement software solutions.
- Scraped internal user information from websites to automate email alerts and notifications.
- Handled significant responsibilities to support organizational goals through effective planning.
- Streamlined the scheduling system for 90+ users to improve experience during weekly shift schedules.

Full-Stack Software Developer

September 2023 - December 2023

MIT IS&T + Japanese Department

Cambridge, MA

- Developed a front-end submission portal using Node.js for Dr.Aikawa's new project-based course.
- Integrated back-end database using MongoDB to handle large amounts of data.
- Established connection with remote server to allow 30+ students to submit projects seamlessly.
- Tested the query system using AI-generated projects to ensure the quality of the system.

Teamwork & Leadership

MIT EMS

January 2024 - Present

Emergency Medical Technician

Cambridge, NY

- Coordinating in a team to provide emergency medical services for the Cambridge-Boston Community.
- Practicing leadership and close cooperation in stressful environments to coordinate patient movement.

Senior Leadership Council

September 2021 - June 2022

Brooklyn Technical High School

Brooklyn, NY

- Administered 5 events. Each successfully hosted more than 1000 participants.
- Contracted Professionals & Oversaw Venues. Achieved Distinct Senior Leadership Award.