Andres Abreu

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Education

Massachusetts Institute of Technology, Cambridge, Massachusetts   Expected Graduation: May 2027

- ○ **Majors:** Computer Science and General Mathematics (Course 6-3 and Course 18)   **GPA:** 4.8/5.0
- ○ **Relevant Coursework:** Software Construction, Web Lab, Introduction to Machine Learning, Introduction to Algorithms, Introduction to Probability, Linear Algebra

Experiences

Cherokee Nation   *Tulsa, OK*
Emerging Technologies Intern   *June 2025 – Present*

- ○ Worked alongside other interns to create an AI-powered search engine and legal assistant to help lawmakers, judges, prosecutors, and other stakeholders efficiently research Cherokee law.
- ○ Currently working towards digitizing the Cherokee Nation's tribal registraton process.

MIT   *Cambridge, MA*
Undergraduate Researcher   *June 2024 – September 2024*

- ○ Created a website that allowed users to create virtual scrapbooks called "scraps", interact with other users, and generate plans via the Mobi API for the web.lab competition.
- ○ Gained experience with MongoDB, ReactJS, and Express.js.

AMP Scholar   *New York, NY*
Jane Street's Academy of Math and Programming   *July 2023 – August 2023*

- ○ Completed Jane Street's 5-week Academy of Math and Programming designed for incoming college freshmen who have experienced barriers to accessing advanced STEM educational opportunities.

Extracurriculars

MIT Motorsports   *Cambridge, MA*
Member   *August 2023 – June 2025*

- ○ Developed skills with C++, Python, Typescript, Next.js, InfluxDB, React, and STM32 microcontrollers.
- ○ Led team's telemetry subteam whose goal is to retrieve data from the car and provide data-visualization tools.
- ○ Developed a custom telemetry system that contributed significantly to a 10/10 score from design judges at the Formula SAE competition for the team's LV/DAQ system.
- ○ Developed system featuring a custom-built data-visualization web experience for team members to plot data from the car in real-time with Python.
- ○ As a freshman, played a major role in delivering the team's first working telemetry system since 2017.

MIT Student Information Processing Board   *Cambridge, MA*
Keyholder   *August 2023 – Present*

- ○ Lead team behind student-produced web calendar service DormSoup that utilizes LLMs to parse student event emails and displays them in a simple monthly view.
- ○ Develop skills with Next.js, PostgreSQL, OpenWebUI, and Ollama APIs, and prompt engineering

Projects

scrapTrip   *January 2024 – February 2024*

- ○ Created a website that allowed users to create virtual scrapbooks called "scraps", interact with other users, and generate plans via the Mobi API for the web.lab competition.
- ○ Gained experience with MongoDB, ReactJS, Express.js, Render, and MantineUI.

RAIN   *June 2024 – Present*

- ○ Working alongside one other developer to develop a high quality RPG using Unreal Engine 5.
- ○ Developing skills with C++, Unreal Engine, and game design.

Skills

Programming Languages/Frameworks: Python, C++, Typescript — ReactJS, Express.js, Next.js

Languages: Spanish (Intermediate)