

# Camila Zavala

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## Education:

**Bachelor of Science in Computer Science and Engineering** | Massachusetts Institute of Technology May 2025

*Activities:* Mujeres Latinas (President), Latin Dance Club (President), Latinos in Science and Engineering (Secretary), Latino Cultural Center (Publicity Chair), Society of Hispanic Professional Engineers (Member)

*Notable Courses:* Design Thinking and Innovation Leadership, Design Thinking and Innovation Project, Introduction to Python, Fundamentals of Programming, Mathematics for Computer Science, Introduction to C and Assembly, Web lab, Software Construction, Introduction to Algorithms, Linear Algebra.

## Achievements:

- Hispanic Scholarship Fund Scholar and Quest Bridge National College Match Finalist
- Spokane Scholar Award – Social Studies Department
- 1<sup>st</sup> Place, Regional – National History Day: Eastern Washington Regional History Day
- 2<sup>nd</sup> Place, Regional – National History Bowl and Bee Eastern Washington Competition
- AP International Diploma and AP Scholar with Distinction

## Projects:

**Lost and Found** | Web lab | MIT | Cambridge, MA January 2023 – Present

- Programmed a website using tools like JavaScript, React, Node.js, APIs, and MongoDB for storing the database (MERN). My website consists of a game where two players are placed in a random location in a city of their choice, and they must walk towards each other and find each other through google street-view (used google street view API).

**Alexa Speech System** | Design Thinking and Engineering Project | MIT | Cambridge, MA October 2021 – December 2021

- Worked with three other individuals to implement a new skill set onto Amazon Alexa's speech systems. Our project was based on a skill for wellness and morning routine purposes.

**Self-Automated Car** | Robotics Club | Mt. Spokane High School | Spokane, WA January 2018 – February 2021

- Built and programmed a self-automated robot, in form of a car, that raced through a sensor-driven obstacle course.

## Activities:

**President** | Mujeres Latinas | MIT | Cambridge, MA May 2022 – Present

- Create presentations for, and lead, bi-weekly general body meetings to provide a community for under-represented students at MIT.

**President** | Latin Dance Club | MIT | Cambridge, MA January 2023 – Present

- Lead and organized bachata and salsa lessons, as well as social dance events. Dancing is a hobby of mine and I love to have for passion of it with the rest of the Latino community at MIT.

**Publicity Chair** | Latino Cultural Center | MIT | Cambridge, MA May 2023 – Present

- Create event posters to publicize weekly events of the clubs in the organizations. We provide social activities for Latinos at MIT to provide a community to students who want to connect with their cultural backgrounds.

**Secretary** | Latinos in Science and Engineering | Cambridge, MA May 2023 – Present

- Provide facilitation of communication from the members to the executive board, as well as publicizing events for this club.

## Experiences:

**CSAIL Julia Lab** | MIT | Cambridge, MA September 2023 – Present

- Working on the integration of Enzyme and Lux programs that are used for automatic differentiation. For Lux, the usage of the optimizations possible from Enzyme can allow writing in place when mutating neural networks.

**Physics Mentor** | MIT | Cambridge, MA September 2022 – Present

- Mentoring two freshman students for Classical Mechanics. Help students understand concepts they are having trouble grasping and provide them with advice and guidance to make their transition to MIT better.

**Software Engineer Intern** | Boston Scientific | Minneapolis, MN May 2023 – August 2023

- Developing a tool for layout verification of one of Boston Scientifics applications that connects to the respective medical device. Working on a python script to be able to apply language conversion as a feature of the tool.

## Skills:

Fluent in both English and Spanish

Proficient in Autodesk CAD Software

Proficient in Python, C and Assembly, JavaScript, TypeScript, MERN Software, C++, and MongoDB