

# Viviana Vela

vivi1021@mit.edu | 362 Memorial Dr, Cambridge, MA 02139 | 305-608-7612

## EDUCATION

### Massachusetts Institute of Technology Cambridge, MA

*Candidate for Bachelor of Science in Mathematics with Computer Science, GPA: 4.8/5.0* May 2025

- Coursework: Elements of Software Construction, Introduction to Algorithms, Probability and Random Variables, Fundamentals of Programming, Corporate Financial Accounting

### Ransom Everglades School Miami, FL

*GPA: 4.19/4.30, unweighted | ACT: 36* May 2021

- Awards: Cum Laude Society, National AP Scholar, National Merit Finalist, Excellence in Spanish Language

## WORK EXPERIENCE

### Google Sunnyvale, CA

*SWE Intern* May 2024-August 2024

- Planned and implemented the visual and functional redesign of an internal debug menu for Google Chat, which enhanced usability of the menu and aided all Chat developers in improving their debugging workflow.
- Added new features to the debug menu including a dialog for debugging information, like JSerrors and logs, as well as environment-switching links, utilizing CSS, Closure Templates, and JavaScript.
- Fixed a critical JavaScript bug impacting around 10,000 daily reports, improving overall system reliability.

### Google Mountain View, CA

*STEP Intern* May 2023-August 2023

- Wrote and built a Python script that uses PyInstaller to package an internal testing framework for Digital Car Keys into an executable for external vehicle and device OEMs to run and customize independently.
- Developed a user guide to walk external partners through configuring and running tests with the executable.
- Implemented a diagnostic reporting API that creates test artifacts to facilitate debugging and troubleshooting.

### LingroLearning Remote

*Summer Project Coordinator* July 2020-August 2022

- Researched the language departments of 200+ colleges to curate the company marketing team's email list.
- Cataloged assignment due dates for language courses of 20+ universities into Excel spreadsheets so professors could export the data into their class website.
- Organized Microsoft Excel spreadsheets with language audio exercises and vocabulary/grammar lessons.

## PROJECTS

### Starbattle, Software Construction Cambridge, MA

- Implemented a game of Starbattle using concurrent programming, grammar-parsing, web APIs, and HTML.

### Memory Scramble, Software Construction Cambridge, MA

- Created a multiplayer, concurrent version of Memory using abstract data types and test first programming.

### Fastest Path Finder, Fundamentals of Programming Cambridge, MA

- Using BFS and DFS algorithms, found the fastest routes in Boston given traffic patterns and speed limits.

## LEADERSHIP EXPERIENCE

### Sigma Kappa Cambridge, MA

*Assistant Panhellenic Delegate* January 2022-Present

- Attended weekly panhellenic-wide meetings to share chapter-specific concerns and listen to other chapters'.
- Presented educational sessions provided by MIT's Panhellenic Association to my chapter of 75+ members.

### Math Team Miami, FL

*Statistics Division Coach* September 2020-May 2021

- Trained 3-5 math team students on how to compete in individual and team statistics test rounds by reviewing practice problems and teaching concepts like probability and confidence intervals.

### Health Information Project Miami, FL

*Peer Health Educator and Board Member* August 2019-May 2021

- Taught groups of 10-12 high school freshmen lessons about maintaining mental, physical, and sexual health.
- Directed training sessions for 20+ educators that focused on developing their public speaking skills.

## SKILLS & INTERESTS

**Skills:** Python | TypeScript | JavaScript | CSS | Google Workspace | Spanish (Native) | Public Speaking

**Interests:** Improv Comedy | Crossword Puzzles | Musical Theater | Reading | Sigma Kappa