

# ZHIRON WU

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## EDUCATION

### Massachusetts Institute of Technology

Sep. 2022 - May 2026

*Candidate for Bachelor of Science in Computer Science and Engineering*

- **Coursework:** Computer Vision, Computer Systems Engineering, Intro to Machine Learning, Design and Analysis of Algorithms, Computation Structures, Linear Algebra and Optimization, Software Construction, Circuits and Electronics, web.lab.

## SKILLS

- **Technical:** Python (NumPy, PyTorch), Typescript, JavaScript, C++, C, Rust, React, Linux, Git
- **Non-Technical:** Spanish (Native), English (Fluent), Japanese (Basic), French (Basic), Chinese (Heritage)

## EXPERIENCE

### Fundamentals of Programming

MIT EECS Department

*Lab Assistant*

*Sept. 2023 - Present*

- Lead students to a better understanding of foundational python and programming concepts, including abstract problems, algorithmic techniques, data types, and recursion.
- Review student code, offering feedback on clarity, style, and efficiency.

### Computing Research Center at National Polytechnic Institute

Mexico City, Mexico

*Research Internship*

*Jun. 2024 - Aug. 2024*

- Evaluate the performance of a variety of post-quantum cryptography implementations on a resource-constrained ARM device (STM32F4-Discovery). Supervised under Dr. Gina Gallegos-García

### Introduction to Python

MIT EECS Department

*Lab Assistant*

*Feb. 2023 - May 2023*

- Introduced students to introductory Python and programming concepts and helped them with their assignments, including debugging, refactoring, and testing.

### Low-Level Programming in C and Assembly

MIT EECS Department

*Lab Assistant*

*Feb. 2023 - May 2023*

- Assisted in the teaching process for a course on low-level programming in C and Assembly, focusing on memory and associated topics including pointers, and how different data structures are stored in memory, the stack, and the heap.

## ACTIVITIES

### Ecuadorian Informatics Olympiad Organization - OIEC

Ecuador

*General Volunteer*

*Feb. 2021 - Present*

- Design and redact problems as well as create test cases for the national informatics olympiad.
- Supervise participants in national and international informatics olympiads.

### Ecuadorian Mathematics Olympiad Organization - OMEC

Ecuador

*General Volunteer*

*Feb. 2021 - Present*

- Supervise and grade participants in national and international olympiads.
- Play-test and check national contests for errors, level-appropriateness, and more.

### Educational Studies Program - ESP

MIT

*Member, Subdirector*

*Sept. 2022 - May 2023*

- Helped carry out educational events for local middle/high school students and the MIT community.
- In particular, I assisted in scheduling classes, publicizing programs, securing materials needed, and more.

### European Girls' Mathematical Olympiad - EGMO

Portorož, Slovenia

*Team Leader - Ecuador*

*Apr. 2023*

- Acted as an ambassador for Ecuador in international settings, building rapport and facilitating cooperation.

### International Olympiad in Informatics - IOI

Online from Ecuador

*Proctor*

*Aug. 2022*

- Ensured a bridge of communication between organizers in Indonesia, the Ecuadorian participants, and team leaders overseas.

### Pan-American Girls' Mathematical Olympiad - PAGMO

Online

*Problem Coordinator*

*Oct. 2021, 2022*

- Formulated a comprehensive grading scheme. Fairly graded participants from 15+ different countries in Spanish and Portuguese.
- Fostered cordial and effective communication with co-coordinators, team leaders, and the rest of the organizing team.