# 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*                    *GPA: 4.7/5.0*
- **Coursework:** Intro to Machine Learning, Design and Analysis of Algorithms, Computation Structures, Linear Algebra and Optimization, Software Construction, Circuits and Electronics, web.lab.
- **Spring 2025 Coursework:** Computer Vision, Computer Systems Engineering.

## 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.