

# Adrián Alejandro Ramírez Cruz

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## EDUCATION

**B.S. in Computer Science and Technology**, *Tecnológico de Monterrey*  
Academic Talent Scholarship, GPA 4.0/4.0

Aug 2021 – Jun 2025  
Monterrey, México

## EXPERIENCE

**Software Engineering Internship**, *Mercedes Benz Trucks*

Oct 2022 – Oct 2023  
Monterrey, México

- Collaborated with a team of programmers to develop a Python algorithm that reads data sheets and generates a fully functional CRUD application, resulting in an 80% increase in productivity and efficiency.
- Designed and developed a web application using JQuery, Bootstrap, and PostgreSQL that can generate quotes for over 3,000 customers, achieving a 35% reduction in quote generation time.

**Software Engineering Virtual Internship**, *JPMorgan Chase & Co*

Feb 2022 – Mar 2022

- Created a data analysis system with a stock price data feed using Python, resulting in a 40% increase in data accuracy and a reduction of the processing time.
- Utilized Perspective, an open-source code for data visualization, to develop a visually appealing chart for the trader's dashboard, leading to better decision-making and increased profits.

## SOFTWARE PROJECTS

**Web-Based System with Gamification and Analytics for Service Quality Enhancement**

- Collaborate with a team of 4 classmates to develop a cutting-edge web-based software system using React.js that connects seamlessly to a Firebase database.
- We design and develop a highly engaging video game using Unity and C#, inspired by survey gamification, resulting in an increase in survey completion rates.
- We contribute to the decision-making process for the qualification of the Tecnológico de Monterrey, utilizing control indicators and data analytics to achieve an increase in overall service quality.

**Mexican Sign Language Learning App**

- I developed with a team of programmers working under SCRUM methodologies a mobile application for iOS, capable of teaching Mexican Sign Language and Spanish with Machine Learning models created with Co-ML that can recognize objects and show the sign and the name of the object on the screen application.

**Bot Detection System**

- Led team to develop a C++ program using Object-Oriented Programming to detect server threats from a list of IP accesses.
- Improved program efficiency by 70% through the implementation of data structures and algorithms.

**Smart Pill Dispenser**

- Collaborated with a team to design and build a prototype pill dispenser that connects to a web application, utilizing microcontrollers, sensors, and actuators.
- Developed a user-friendly and efficient web platform to manage the medication intake of older adults with JavaScript, Bootstrap, PHP, and MySQL that incorporates the Internet of Things.
- Utilized Arduino scripts to ensure seamless communication between the pill dispenser and the web app.

## LEADERSHIP ACTIVITIES

**Microsoft Learn Student Ambassador**, *Beta Milestone*

Jan 2022 – Present

- Work with over 30 Student Ambassadors to increase our community impact.
- Taught 60+ individuals on Web Development & Azure technologies.

## SKILLS

Python | JavaScript | C++ | HTML | CSS | SCSS | Bootstrap | jQuery | Node.js | express.js  
MySQL | Git & GitHub | Figma | Tailwind CSS | MongoDB | React.js | Azure | Swift | Co-ML

## LANGUAGES

**Spanish** (Native) | **English** (B2)