

# Alonso Alarcon

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## EDUCATION

### Tecnologico de Monterrey

B.S. in Computer Science

Chihuahua, Mexico

Expected Graduation, Jun 2027

o GPA: 9.5/10

o **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Internet of Things, Computer Security, Advanced Algorithms, Statistics & Applications

## EXPERIENCE

### Autozone

Frontend Developer Intern

Chihuahua, Chihuahua

Aug 2025 – Present

- Improved data loading by 40% through optimized API sequencing and client-side state in React + TypeScript
- Automated HR reporting with React and Chart.js, adding Excel export features and reducing manual effort by 50%
- Led the redesign of 3 internal tools using Figma and UI/UX standards, improving usability and visual consistency

### Community Lab

Fullstack Developer Intern

Chihuahua, Chihuahua

Jun 2025 – Aug 2025

- Migrated company website to Next.js and React codebase, enhancing performance and scalability across 5+ pages.
- Refactored the integration of REST APIs, optimizing the flow of data between the frontend and backend components, resulting in a 12% decrease in average API response times for critical user functions.

### RedEmprende

Frontend Developer Intern

Chihuahua, Chihuahua

Apr 2025 – Jun 2025

- Developed an interactive test using ChartJS to measure entrepreneurship likelihood, engaging 50+ monthly users.
- Implemented a brochure download feature on Zoho Sites providing access to entrepreneurship resources, with up to 200+ monthly downloads.

## PROJECTS

### Gestion+ - Tracking System

Team Lead - Oct 2025

- Developed a cross-platform app with React Native to manage inventory entries, exits, reports, and audits for a children's home supporting 200+ residents, used by 10+ recurring staff members
- Implemented real-time synchronization with a MySQL database on GCP, supporting 100+ concurrent users with JWT-secured authentication.
- Led an 8-person development team, overseeing system architecture, database design, UI/UX, and cloud deployment

### Highpoint Ecoa's - Teacher Survey Management System

Team Member - May 2025

- Engineered a full-stack web platform for teacher evaluation data, processing data for over 3 months of evaluations, with a focus on UI and core backend APIs for data processing and analysis.
- Designed a responsive frontend with role-based access control for 3 user types (admin, coordinator, teacher), enhancing data security by restricting access based on roles.

## ACTIVITIES AND LEADERSHIP

### Tecnologico de Monterrey – High School Tutoring Program

Delivered Python tutoring sessions to a class of 55 students

Aug 2024 – Present

### NASA Space Apps Challenge 2025 – Global Nominee

Pioneered a data-driven air-quality platform using NASA's TEMPO satellite, and Gemini AI for real-time analysis

Oct 2025

### CS Student Council Design & Media Assistant

Authored promotional materials and managed event branding for 3+ major council events

Jun 2024 – May 2025

### Community Food Drive – Animal Shelter Initiative

Coordinated a donation campaign collecting 150 kg of dog food for a local shelter

May 2024

## SKILLS

**Programming:** JavaScript, TypeScript, Python, C++, SQL (MySQL, PostgreSQL, MSSQL)

**Tools & Frameworks:** React, Expo, Node, Express, Postman, Prisma, Jest, Git, Docker, Figma, Linux CLI, Google Cloud Platform

**Languages:** Spanish (Native), English ([C1 Certified](#))