

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

Chihuahua, Chihuahua

Frontend Developer Intern

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%
- Received "Good Job Award" by General Services Manager for exceptional contribution to team performance, ownership beyond assigned tickets, and continuous delivery across multiple sprints

Community Lab

Chihuahua, Chihuahua

Fullstack Developer Intern

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 ETL flow of data between the frontend and backend components, resulting in a 12% decrease in average API response times for critical user functions

RedEmprende

Chihuahua, Chihuahua

Frontend Developer Intern

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 modeling 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 2025 – Dec 2025

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++, Java, HTML, CSS, C#, SQL (MySQL, PostgreSQL, MSSQL), MongoDB, R

Tools & Frameworks: React, Expo, Node, Express, Spring-boot, Webpack, Charts.js, Zustand, JWT, Postman, REST APIs, Prisma, Jest, Git, Docker, Figma, Linux CLI, Google Cloud Platform, Jira, Scrum, CI/CD, Agile

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