José Julián Martínez Romero

Computer Science Engineer

✉ josejulian.mtzr@gmail.com 📞 +52 662 298 1499 in Julían Martínez ⬡ JulianJ-mtz

EDUCATION

Bachelor in Computer Science Engineering, *Tecnológico de Monterrey* 🔗 — Aug 2021 – Jun 2025, Hermosillo, Mexico
- **GPA**: 94.75/100
- **Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Software Systems Design, Computational Methods, Data Science, Internet of Things, Database Systems

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, C++, Python, C#
Frameworks & Libraries: React, Angular, Next.js, React Native, .NET, Node.js, Express.js, Prisma
Databases: MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

Pinnacle Aerospace, *Internship* — May 2024 – Dec 2024, Hermosillo, Mexico
- Developed a full-stack employee management system, collaborating with a development team to deliver a modern alternative to the company's legacy HR platform.
- Engineered a scalable RESTful API using .NET for employee data management and contributed to Angular frontend development with responsive UI components
- Implemented a secure role-based authentication system with JWT tokens and middleware authorization, enabling differentiated access controls for the distinct roles in the company

PROJECTS

Laborer Management App, *JavaScript, Next.js, Tauri* — 2025
- Collaborated with industrial engineering team to design and develop a comprehensive labor management desktop application for NASE (Negocio Agrícola San Enrique)
- Developed a desktop application using Tauri framework with Next.js frontend

Interdisciplinary Project, *C#, JavaScript, .NET, React Native* — 2025
- Collaborated with a team of designers and mechatronics engineers to develop a mobile application that interconnected with smart containers for medication storage for a dog shelter
- Developed the backend using .NET and implemented API integration with the React Native mobile application

Web Application for Automated Partner Onboarding, *TypeScript, Next.js* — 2024
- Collaborated with my team to develop a web application for automating the onboarding process for our trading partner "Flexlogic"
- Developed the frontend using TypeScript and Next.js framework

Mobile Application for an ONG, *JavaScript, Prisma* — 2023
- Collaborated with a team to develop a mobile application for our training partner "BAMX (Banco de Alimentos de México)".
- Developed the backend using JavaScript and Prisma, implementing database seeding and log visualization controllers for internal institutional processes

Three-Node Seismic Detection System, *Arduino, SQL, PHP* — 2022
- Developed a distributed seismograph system using three ESP32 nodes for real-time seismic detection and monitoring
- Implemented an automated alert infrastructure with MQTT messaging and IFTTT integration, delivering real-time notifications while logging seismic magnitude and duration data to MySQL database
- Integrated full-stack solution combining PHP backend APIs, and Grafana visualization dashboards for comprehensive seismic event monitoring and data analytics

LANGUAGES

Spanish
  (*Native*)

English

SOFT SKILLS

Teamwork, Communication, Analytical Reasoning, Problem Solving, Leadership, Adaptability