

Sergio Fabian Acuña Madrid

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I am a Software Engineer with hands-on experience in full-stack web development, specializing in React, TypeScript, and Node.js. My focus is building scalable applications with clean, maintainable code, grounded in a strong foundation of algorithms and relational database design.

Actively seeking a 4 – 6-month full-time internship starting February 2026.

Technical Skills.

- **Languages:** JavaScript, TypeScript, SQL.
- **Libraries & Frameworks:** React, Express, Socket.io.
- **Databases:** MySQL, PostgreSQL.

Tools: NodeJS, Vite, Postman, Git, GitHub, Figma.

Professional Experience

AI Legislative Assistant (*Freelance Developer*)

Nov (2025)

Engineered a production-ready AI conversational agent specialized in a legislative representative's public profile. Architected a type-safe frontend using React and TypeScript, ensuring a robust and maintainable codebase. Integrated the Google Gemini API within a Node.js/Express backend to process natural language queries in real-time. Implemented advanced prompt engineering techniques ("System Prompts") to strictly control the AI's persona, ensuring accurate, institutional responses and mitigating hallucinations regarding legislative data.

Stack: React, TypeScript, NodeJS, Express.js, Google Gemini API, SASS.

Selected Projects

Real-time Chat App (*Developer*)

Jan 2025 – Mar 2025

Engineered a full-stack, real-time chat application from scratch. Architected the backend using Node.js and Express, leveraging WebSockets (Socket.io) to create a bi-directional, low-latency communication channel for instant messaging. Designed and modeled the PostgreSQL database schema to efficiently store user and message data. Built a responsive frontend (HTML/SASS) that ensures a consistent user experience across desktop and mobile devices. Validated all API endpoints using Postman.

Stack: Html, SASS, NodeJS, Express.js, Socket.io, PostgreSQL, Postman, Vite.

AI Recipe Assistant (*Developer*)

August 2025 – October 2025

Developed a full-stack web application powered by Generative AI to create and manage recipes. Architected a RESTful API using Node.js and Express that integrates Large Language Models (LLMs) to generate dynamic cooking instructions based on user inputs. Modeled a relational database schema in MySQL to store structured recipe data. Built a responsive React interface ensuring seamless interaction between the AI agent and the user. The project focuses on clean code principles and handling asynchronous third-party API responses.

Stack: React, SASS, NodeJS, Express.js, MySQL, OpenAI API/Gemini API, Postman.

Education

Instituto Tecnológico de Ciudad Madero

Bachelors in Software Engineering

Cd. Madero, Tamps

Expected August 2026

Centro de Bachillerato Tecnológico Industrial y de Servicios No. 105

Programmer Technician

Altamira, Tamps

2018 - 2021

Languages.

- Spanish (Native).
- English (B2+ Upper intermediate).

Interests.

- Outdoor activities.
- Photography.
- Playing musical instruments