

# Sergio Barreras

## Full Stack Developer

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## Professional Summary

Full Stack Developer with 4+ years of experience building scalable web applications using Angular, NestJS, TypeScript, and modern cloud-ready architectures. Specialized in crafting clean, responsive UI and implementing robust backend logic with strong focus on security, data integrity, AI workflows, and integration of external services such as Twilio WhatsApp API and OpenAI. Comfortable in agile environments, applying SOLID, Clean Architecture and component-based development for reliable, maintainable software.

## Technical Skills

- **Languages:** TypeScript, JavaScript, HTML, CSS, C#
- **Frontend:** Angular (v10+), Nuxt (v4+), Angular Material, TailwindCSS, RxJS
- **Backend:** ASP.NET Web API, Node.js, NestJS, Express.js
- **Databases:** PostgreSQL, Microsoft SQL Server
- **Integrations:** Twilio WhatsApp API, OpenAI API
- **Tools:** Git, GitHub, Docker, Postman, Trello
- **Testing:** Unit testing, debugging, code review
- **Methodologies:** Scrum, Clean architecture, SOLID

## Work Experience

### Full Stack Developer

Creative Software International | Jul 2025 - Oct 2025

Remote from Cd. Obregón, Son., Aguascalientes, Ags.

- Designed and enhanced database schemas for granular permissions and user profile governance.
- Built advanced rules for delegated workflows and temporary personnel assignments.
- Implemented cross-layer production validations for improved operational accuracy.
- Resolved Work Order deadlocks by refactoring core transactional logic.
- Delivered centralized detail views with real-time UI feedback.
- Automated email segmentation and fixed persistent CRUD inconsistencies.

### Full Stack Developer

Taruks Soluciones S.A. de C.V. | Dec 2022 - Aug 2024

Ciudad Obregón, Sonora

- Developed and maintained Angular applications with clean architecture principles.
- Integrated REST APIs, implemented reactive forms, and managed functional state with RxJS.
- Participated in Scrum ceremonies and code reviews.
- Delivered responsive interfaces aligned with best UX practices.

## Projects

### **BotBite - AI Waiter Assistant for Restaurants**

*NestJS, Angular, Twilio WhatsApp API, OpenAI, TailwindCSS, PostgreSQL, Docker, Netlify*

- Developed a full SaaS platform enabling customers to place food orders via WhatsApp (Twilio API) using conversational AI.
- Implemented multi-restaurant and multi-branch architecture with dynamic QR-based tables.
- Built NestJS backend modules for customers, orders, menu products, branches, and AI-driven interactions.
- Integrated Twilio WhatsApp API with OpenAI using an MCP-inspired flow to maintain session context and generate step-by-step ordering conversations.
- Created ingestion processes for menus via PDF/CSV, implemented logical deletion and price-lock features.
- Developed a responsive landing page deployed on Netlify with custom domain (botbite.com.mx).

### **Mentify - AI-Powered Trivia App**

*NestJS, Angular, TailwindCSS, OpenAI, Gemini, PostgreSQL*

- AI-generated trivia questions using a multi-provider engine (OpenAI + Gemini).
- Modular backend with session persistence and validation layers.
- Dynamic and responsive Angular interface with animations.

### **Diócesis de Ciudad Obregón - Administrative & Public Platform**

*Angular, Angular Material*

- Built administrative system for parishes and deaneries.
- Implemented role-based navigation, reactive forms, and responsive layouts.
- Developed a clean and accessible UI for both public and internal users.

## Education

### **Bachelor's Degree in Computer Systems Engineering – Software Focus**

*Instituto Tecnológico Superior de Cajeme*

Aug 2018 - May 2025

## Languages

**Spanish:** Native

**English:** B2 - Upper Intermediate (reading, writing and speaking)

## Soft Skills

Communication · Proactivity · Collaboration · Responsibility · Critical thinking