

Manuel Alejandro Hernandez Renteria

Senior Frontend & Full-Stack Engineer
Guadalajara, Mexico | Open to Relocation

PROFESSIONAL SUMMARY

Senior Frontend & Full-Stack Engineer with 6+ years delivering scalable enterprise web and cross-platform applications for high-profile clients including Santander, Univision, and Federación Patronal de Seguros. Currently a Frontend Technical Lead guiding a team of 5, with deep expertise in Angular (8–20), TypeScript, NestJS, and micro-frontend architecture. Skilled across the mobile stack, shipping cross-platform apps with Flutter and Ionic to Android, iOS, and connected-TV platforms. Has independently owned the full product lifecycle — requirements, architecture, UX/UI, frontend, backend, DevOps, and cloud deployment. Known for standardizing engineering practices (SOLID, Clean Architecture) and turning complex business rules into maintainable, well-documented systems.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript

Frontend: Angular (8–20), AngularJS, RxJS, NgRx, HTML5, CSS3, SCSS/SASS, Tailwind CSS, Ionic, PWA, Micro-frontends, Accessibility (WCAG, ADA), UX/UI design

Backend: NestJS, Node.js, REST APIs, Prisma, Redis, JWT / RBAC

Mobile: Flutter, Dart, Ionic / Capacitor

DevOps & Cloud: Docker, Nginx, CI/CD, Firebase (Hosting & Storage), Railway, Heroku, Git / GitHub / Bitbucket / GitLab

Testing: Jest, Jasmine

Concepts: OOP, MVC, SOLID, Clean Architecture, Offline-first

PROFESSIONAL EXPERIENCE

MAVI de Occidente — Guadalajara, México Feb 2026 – Present

Frontend Technical Lead

- **Led** a team of 5 frontend developers, providing technical guidance, running code reviews, and raising consistency across delivery workflows.
- **Standardized** engineering practices around SOLID principles and Clean Architecture, cutting technical debt and strengthening long-term maintainability.
- **Drove** production incident investigations end to end — reproducing issues, analyzing logs, validating behavior, and coordinating fixes to reduce recurring defects.
- **Partnered** with project managers and tech leads to assess requirements, surface technical risk early, and define feasible implementation strategies aligned to business goals.

Globant — Zapopan, México Nov 2021 – Jun 2025

Semi Senior Advanced Web UI Developer

Client: Federación Patronal de Seguros *Mar 2024 – May 2025*

- **Built** complex enterprise quoting forms and screens in Angular 17/18, translating intricate business rules, formulas, and parameters into scalable, reusable UI.
- **Implemented** a micro-frontend architecture that improved modularity and decoupled deployments across the insurance platform.
- **Integrated** Angular components with REST APIs and produced technical documentation aligned with both legacy and new quoting tools, in collaboration with business analysts and designers.
- **Owned** delivery across DEV, TEST, and PROD through CI/CD pipelines, ensuring stable releases and system integrity.

Client: Santander *May 2023 – Mar 2024*

- **Refactored** shared TypeScript/Angular 14–16 components, eliminating duplicated logic and improving rendering performance and maintainability across the platform.
- **Integrated** REST APIs to deliver new frontend features against UX team guidelines, ensuring a consistent user experience.
- **Delivered** high-quality results under tight deadlines with minimal guidance, operating with a high degree of autonomy.

Client: Univision Communications *Nov 2021 – Apr 2023*

- **Integrated** the Google PAL SDK across web, Android, Roku TV, and Fire TV — wiring front and back-end logic for consistent ad delivery on Angular 11–14.
- **Developed** back-end endpoints using PHP, AWS, Docker, and Ubuntu to support front-end functionality and improve system performance.
- **Shipped** new features across Android, Roku TV, and Fire TV, improving device compatibility against customer requirements.
- **Troubleshooting** and resolving production issues, combining frontend components with server-side logic to keep the platform reliable, under Scrum with Git/GitHub/Bitbucket.

Istra — Guadalajara, Mexico Jan 2020 – Nov 2021

Frontend Developer (Intern → Developer)

- **Delivered** full-cycle frontend development with AngularJS and Angular 8–12, building responsive web apps aligned to client requirements.
- **Integrated** client-side web services and implemented customer-specific features for tailored, high-functionality applications.
- **Created** technical documentation — problem-domain reports, module flowcharts, and mockups — to streamline development and team collaboration.

FEATURED PROJECTS

IMT Pavé Express — Pavement Engineering SaaS Platform

Angular 17, Spring Boot 3.5, NestJS, PostgreSQL, Docker, Nginx | Lead engineer (team of 3)

- **Owned** the full lifecycle — requirements, architecture, UX/UI, frontend, backend, and deployment — for a platform delivering real-time structural, spectral, and probabilistic pavement analysis through multi-step forms and interactive data visualization.
- **Developed** a high-performance Java calculation API with caching and monitoring (Micrometer, Actuator), optimized for computationally intensive engineering datasets.
- **Implemented** secure authentication and project management in NestJS with JWT-based RBAC and documented REST APIs (Swagger/OpenAPI), deployed via Docker and Nginx.

APCL — Offline Machine Learning Engineering App

Flutter, Dart, ONNX Runtime, Material 3, GoRouter | Lead engineer (team of 3)

- **Designed** and built a cross-platform mobile app integrating four pre-trained ML models — PCI, PG, and EFC (split into its FI and NF sub-models) for offline pavement condition analysis and structural evaluation.
- **Implemented** on-device inference with ONNX Runtime for fully offline predictions — no server dependency — ensuring data privacy and field reliability.
- **Architected** an offline-first design with modular ML services, lazy loading and conditional native/web compilation, optimizing inference performance on-device.

Swiss Premier — Mobile & Web Debt-Collection Platform

Ionic 8, Angular 18, NestJS, Firebase, SQLite, Capacitor, Tailwind CSS | Frontend / UX/UI & Ionic developer (collaborative team)

- **Built** the offline-first mobile app for field debt collectors — route management, payment tracking (abonos), visit logging, and automated PDF receipt generation.
- **Designed** and developed the full admin web dashboard (UX/UI + Angular) with reporting (PDF/CSV), route assignment, and permission management using Angular Material and Tailwind CSS.
- **Deployed** cross-platform to Android and iOS with stable performance in low-connectivity environments, supported by CI/CD and Git-based workflows.

ADDITIONAL PROJECTS

Orkesta — Digital Invitation & Event Management SaaS

Estilo y Confort — Premium Furniture Lead-Gen Website & CMS

Real del Paso — Landing Page & Admin / Property Management Platform

Cotizly — Multi-Tenant Quote-to-Order SaaS

EDUCATION

B.S., Software Development Engineering

Centro de Enseñanza Técnica Industrial (CETI), Guadalajara, Mexico *Jan 2017 – Dec 2020*

LANGUAGES

Spanish — Native • English — B2 (Upper Intermediate)