JUAN MANUEL MUÑOZ GONZÁLEZ

Frontend Architect | Angular Expert | Software Architecture & UX Specialist
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Portfolio: jmmg-portfolio.vercel.app/en

PROFESSIONAL PROFILE

Frontend Architect with 20 years of experience leading the full software development lifecycle of high-complexity solutions for Tier-1 corporations (Repsol, Banco Santander, Vodafone, HBX Group). Expert in designing and deploying scalable architectures from scratch, specializing in Micro-frontend ecosystems (Microsites) and the development of Design Systems based on custom, reusable UI component libraries.

Awarded the **2023 Best in Class prize (Expoquimia)** for the ARIA/Stock Control project. I excel in technical leadership of multidisciplinary teams, establishing standards for architecture governance, documentation, and code quality, with a strong focus on mentoring and knowledge-sharing across teams. I maintain a hands-on approach with a comprehensive Full Stack (Backend) vision, a solid foundation in UX/UI strategy and usability, and active use of AI-assisted development tools (Claude Code, GitHub Copilot) to accelerate delivery without compromising quality. Currently leading the Front End architecture for HBX Group, the world's largest B2B bedbank, on the integration of Perfect Stay packages into the HotelBeds platform.

TECHNICAL SKILLS

- **Frontend Core & Languages:** JavaScript (Expert/ES6+), TypeScript, HTML5, CSS3 (Advanced SASS/Less), Reactive Programming (Functional Programming).
- **Frameworks & Ecosystems:** Angular (Expert: Signals, RxJS, NgRx), React, Next.js, Vue.js, Astro, Ionic (Mobile), Backbone.js, and jQuery.
- **Architecture & Patterns:** Micro-frontends (single-spa.js, Module Federation, Native Federation Vite), Monorepos (Nx), Server Side Rendering (SSR), ZoneLess, Static Site Generation (SSG), Design Systems (creation of proprietary, scalable component libraries).
- **State Management:** Advanced mastery of Signals, NgRx, Redux, and complex flows with RxJS.
- **Testing & Quality:** Unit Testing & E2E (Jest, Cypress, Jasmine, Karma). Implementation of Code Coverage strategies (>90%).
- **Tools, Build & DevOps:** Webpack, Vite, CI/CD (GitHub Actions, GitLab CI), Version Control (Git), SonarQube.
- **UI/UX & Systems Design:** Tailwind CSS, Material UI (MUI), PrimeNG, Bootstrap, Accessibility (A11y), Usability (Expert).
- **Documentation & Architecture Governance:** PlantUML, Confluence, Excalidraw — architecture diagrams and documentation for cross-team alignment.
- **AI & Productivity Tools:** Claude Code, GitHub Copilot, MCP (Model Context Protocol), Prompt Engineering, custom AI Skill creation for development workflows.

PROFESSIONAL EXPERIENCE

Plexus | Frontend Architect | 06/2026 – Present

Leading the Front End architecture for the integration of Perfect Stay packages into the HotelBeds platform for HBX Group, the world's largest B2B bedbank — one of the most technically demanding projects undertaken to date, given the scale and complexity of HBX Group's distributed systems.

- **Micro-frontend Architecture:** Designed and led the Front End architecture for the Perfect Stay packages integration, leveraging Module Federation and Nx within a highly complex distributed system.
- **Brand Rebranding:** Led the Front End architecture behind HotelBeds' recent rebranding, supporting the rollout of the company's new brand identity and designs across the platform.
- **Documentation & Governance:** Authored and maintained architecture documentation (PlantUML, Confluence) to support cross-team alignment and long-term maintainability.
- **Technical Support & Mentoring:** Provided ongoing technical support and mentoring to the development team as part of the architecture leadership role.

Vintegris | Frontend Architect | 01/2023 – 06/2026

Responsible for the frontend architecture of nebulaSUITE, a digital signature and identity management platform for critical public organizations (Spanish Parliament, key City Councils) and banking (Banco Santander). Global technical leader for the Frontend area.

- **Architectural Transformation:** Led the strategic migration from a monolithic architecture to an Angular Micro-frontend ecosystem, supported by a custom Design System. Result: 50% reduction in development time and enablement of independent deployments and efficient scaling.
- **Team and Process Reengineering:** Technical direction facilitated the transition from 4 full-stack teams to an optimized structure of 3 Backend teams and 1 specialized Frontend team, increasing global productivity.
- **Quality Assurance (QA):** Implemented a unit and E2E test automation strategy. The combination of standardized components and automated testing achieved an 80% reduction in bugs.
- **Governance and Leadership:** Established coding standards and technical governance (Best Practices, Code Review processes). Act as a technical mentor to the group.
- **Critical Availability:** Ensured platform resilience and stability to provide a robust 24/7 high-availability solution, meeting standards required by government institutions.

Signicat | Frontend Architect | 07/2022 – 01/2023

Frontend architect for Signicat Products Spain (EID), managing digital certificate and facial identification applications with the highest transaction volume in Europe. Cross-functional technical leader for three development teams.

- **Optimization & Technical Debt Control:** Led a critical refactor of the Angular core, reducing third-party library dependency by 60% and increasing technological sovereignty.
- **Business Impact & Retention:** Implemented rigorous unit and E2E test automation, resulting in a 50% bug reduction and optimized performance, securing continuity with critical clients.
- **Multi-team Technical Governance:** Defined coding standards and best practices for 3 frontend teams, ensuring a cohesive architecture aligned with company goals.

Accenture | Frontend Architect & Manager | 11/2020 – 07/2022

Senior Frontend Architect and Consulting Manager for large-scale strategic projects: Vodafone IDM (Identity), Repsol Aria (Big Data), and Banco Santander (Iberia Plus).

- **Repsol Aria (Hito: Best in Class 2023 Award):** Led the architectural transformation and UX redesign for Repsol's Big Data ecosystem. Service volume grew by 85% in two years, with Data Scientists adopting the web platform over external tools (Postman).
- **Technical Excellence:** Implemented unit and E2E test coverage exceeding 90%.
- **Vodafone IDM (Continuity Rescue):** Led a critical architectural restructuring under tight deadlines, stabilizing the product and securing the contract renewal between Accenture and Vodafone.
- **Team Leadership:** Defined governance for 3 distributed teams (9 developers), a key factor in the Repsol contract renewal.

GoldenRace | Senior Frontend Developer | 12/2019 – 11/2020

Senior Developer in the Retail team, specializing in high-performance betting games using Angular and RxJS for international casinos.

- **Performance Optimization:** Executed an audit and improved game performance by 25% by optimizing animation lifecycles and eliminating complex memory leaks.
- **Solution Engineering:** Designed a socket emulation system for limited mobile browsers (Opera Mini), which was key to retaining a strategic client.
- **High-Value Utilities:** Led the development of "Printer Proxy," an integration tool for a client representing 15% of the company's total billing.

CMC | Full Stack Developer | 08/2017 – 12/2019

Second stage in the NEOS project (Unicaja), focused on banking process digitalization and document management.

- **Systems Architecture:** Main Developer and Architect for the institutional documentation portal in Angular.
- **Digital Banking:** Primary developer for financial electronic form platforms using DocPath.
- **Leadership:** Established coding standards and technical governance; responsible for technical training and mentoring.

Lambda | Full Stack Developer | 05/2014 – 08/2017

Full Stack Developer for strategic mobility and Insurtech projects: Efiasistencia and Grúa de Guardia (Línea Directa).

- **Digital Transformation (Efiasistencia 2.0):** Designed the architecture to migrate from desktop to a scalable Web 2.0 solution, reducing development costs by 30% and increasing billing by 20%.
- **Real-Time Innovation (Grúa de Guardia):** Created the first real-time tracking app in the Spanish assistance sector using AngularJS and PHP.

Delaware | Full Stack Developer | 06/2008 – 05/2014

First stage in the NEOS project (Unicaja). Developed critical document management infrastructures and financial electronic forms using DocPath, JavaScript, and jQuery within strict zero-error banking standards.

ISOFT | Junior Developer | 05/2006 – 06/2008

Developed critical systems for the public health sector (S.A.S.), using Java, PowerBuilder, and emerging web solutions (PHP/JavaScript).

EDUCATION

- **Higher Technician in Computer Applications Development (FP2) |** I.E.S. Martín Rivero | 2004 – 2006
- **Electronic Engineering |** University of Málaga | 2002 – 2005 (3 years completed)

LANGUAGES

- **Spanish:** Native.
- **English:** Professional proficiency.

PUBLICATIONS & COMMUNITY CONTRIBUTIONS

- **Angular + NgRx with Signals | 01/2026:** Reference website and repository showing how to build a complete CRUD application using Angular, NgRx, and Signals, including unit and E2E test suites. juanmamunoz.github.io/crud-ngrx-signals/#/login
- **CSS Layout Lab | 10/2025:** Interactive educational platform for mastering CSS Flexbox and Grid layouts. juanmamunoz.github.io/css-layout-lab/#/home
- **Signals vs. Subjects vs. NgRx | 06/2025:** Technical guide and deep comparative analysis of data model management in Angular. juanmamunoz.github.io/signalsVsRxJsVsNgRx/#/
- **Play RxJS | 02/2025:** Interactive visual tool for learning reactive programming and asynchronous flows. juanmamunoz.github.io/playRxjs/#/home