

CV – Manuel Samuel Alfaro Sierra

Professional Summary

Frontend Technical Lead and developer with over 7 years of experience designing, building, and evolving modern web applications. Although Vue.js (2/3) has been my main framework in the last years, I consider myself framework-agnostic and adapt to the project's needs: from Astro + HTMX when speed and SEO are key, to Vue 3, React, or Svelte for more complex reactivity. Specialized in JavaScript, TypeScript, Rust (for WebAssembly), and scalable architectures, with a strong focus on state management, responsive UI/UX, and long-term maintainability. As a lead, I have mentored teams in new technologies, defined technical tasks per sprint, and designed application architectures from scratch. Strong complementary background in WebAssembly with Rust and hybrid mobile development (CapacitorJS plugins, iOS/Android), having built solutions in production for over 5 years. Creative, curious, and passionate about delivering robust, future-proof solutions.

Core Skills

- **Frontend:** Vue.js 2/3 (Composition API, Pinia, Vuex, Vue Router, Vue I18n), React 18 (Hooks, Context API, React Router v6, TanStack Query, TanStack Table, TanStack Virtual, Zustand), Tailwind CSS, SCSS, PostCSS, Lodash, Axios
- **Languages:** JavaScript (ES6/ES7), TypeScript, Rust for WASM, (Java/Kotlin, Objective-C/Swift in CapacitorJS plugins)
- **Testing & Quality:** Cypress (E2E), ESLint, Storybook
- **Architecture & Tools:** Modular architecture, Responsive design (cards & grids), Git, Docker
- **Enterprise Systems:** SAP ECC (FI, CO, MM, DMS), SAPUI5, SAP BW, Web Dynpro, Esker
- **Other:** WASM (Rust & CPP), Node.js, Webpack, Babel, ABAP/4, Backbone

Professional Experience

GOITECH (Logistics Technology) – Frontend Technical Lead

2017 – Present

- Led the design and development of Brain, the company's core logistics management platform, built from scratch with Vue.js.
- Designed a modular and scalable architecture based on semantic principles, enabling maintainability and rapid evolution.

- Migrated Brain to Vue 3 + TypeScript + Pinia + Tailwind, creating Brain 3.0 and significantly improving performance and developer productivity.
- Developed advanced UX features: custom filter engine, responsive card-based grid layout, and virtual scroller with drag & drop to handle 400+ routes with thousands of stops.
- Created from scratch a route creation web application, displaying routes visually on an interactive map with a timeline of stops, similar in concept to Routific.
- Designed and developed from scratch the mobile application for delivery drivers, used daily to manage package delivery with tracking, proof-of-delivery signature, and loss prevention features. Built with CapacitorJS + Vue 3, extended with custom plugins.
- Built a Rust WebAssembly (Wasm) module that detects and converts files from legacy encodings (e.g., Windows-1252) into UTF-8 for massive order imports.
- Established a layered testing strategy with Cypress for E2E and Vitest + React Testing Library for component- and page-level tests (with MSW for API mocking), improving reliability and development speed.
- Delivered stable production systems supporting the company's nationwide operations across Iberia.
- Designed and prototyped a new logistics management app (orders, incidents, customers, etc.) using React 18, TypeScript, React Router v6, TanStack Query, TanStack Table, TanStack Virtual, Zustand, and Tailwind CSS, showcasing adaptability beyond Vue.
- Applied modern architectural patterns: feature-first/module structure, clear server-state vs client-state separation, hooks-driven data fetching, reusable table column definitions, URL-driven filters, virtualization for large lists, and accessibility/error boundaries.
- Adopted a framework-agnostic approach, selecting the stack by context: Astro + HTMX for speed and SEO, or Vue 3 / React / Svelte for complex reactivity and interactive UIs.

Grupo Onetec (Consulting) – JavaScript Developer

2015 – 2017

- Developed a new investment management module for BBVA's desktop web platform.
- Integrated mockups into the Backbone.js framework and implemented business logic in JavaScript.
- Collaborated in a Scrum team with designers, QA, and backend developers.
- Technologies: JavaScript (ES5), Backbone.js, Node.js, Gulp, Jasmine, Cucumber (Java).

ASLAM New Information Technology – Hybrid App Developer

2013 – 2015

Developed hybrid applications for PSA Group dealerships to manage car sales directly from tablets.

Built native plugins in Java (Android) and Objective-C (iOS), compiled with Apache Cordova.

Automated build processes with Node.js + Grunt, integrated CI with Jenkins.

Designed and maintained responsive UI with Backbone.js + Marionette.js.

Stratesys Group – ABAP Developer

2007 – 2013

- Developed custom programs in SAP ECC (FI, CO, MM, DMS), including reports, module pools, RFCs.
- Participated in SAP migrations (R/3 4.6b → 4.7 and 4.7 → ECC 6.0) and new implementations.
- Delivered solutions for clients such as URSA, Telefónica, and Repsol.
- Created early prototypes with SAPUI5 integrated into document management.

Selected Projects

- FileInput Wasm: Built a WebAssembly component (Rust + encoding_rs) to convert legacy encodings (Windows-1252 → UTF-8) for mass file imports. Developed with the support of ChatGPT, currently in production.
- ViewRouter: Lightweight custom wizard/router for Vue 3, replacing a complex “Swiss-watch” wizard. Reduced code from hundreds of lines to ~60, minimal errors, highly extensible.
- Change Detection Utility: Vue 3 composable for deep reactive comparison of form data, preventing unnecessary PATCH calls. Stable in production for 2+ years.
- Responsive Card Grid: Migrated Brain’s detail views to a responsive card-based grid using Tailwind CSS. Implemented dynamic resizing, IntersectionObserver logic, and improved UX significantly.

Development Environment

- Operating Systems: macOS & Linux (daily use)
- Editor: Neovim with a fully customized plugin setup (LSP, Treesitter, Telescope, etc.) for modern web and systems development
- Version Control: Git + GitLab
- CI/CD: GitLab pipelines for build, testing, and deployment
- AI Support: Daily use of ChatGPT (paid plan) as a development partner to explore, design, and validate new ideas

Education

- COMPUTING (SOFTWARE ENGINEERING) (Level 5 BTEC Higher National Diploma)
- Continuous learning in modern frontend development, Rust, and software architecture.

Languages

- Spanish: Native
- English: Full professional proficiency.

Portfolio and Side Projects

- <https://manuel-samuel-alfaro-sierra.porfolio.dkt-mlk.es/>
- <https://gitlab.com/dokoto.moloko/>