

Juan S Rodriguez

Software Engineer

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PROFESSIONAL SUMMARY

Frontend architect and software engineer with 5+ years building scalable, performant web applications in React, TypeScript, and Node.js. Owns frontend architecture for a next-generation aerospace MRO platform — selecting the stack, setting coding standards and test/CI gates, and leading its re-architecture from a single-app monolith into a Module Federation system of independently deployable remotes. Track record of shipping enterprise-grade products end to end: authoring shared component and TypeScript API-client libraries consumed across multiple apps, integrating complex microservice backends, and standing up authentication and CI/CD pipelines from scratch. Drives architectural decisions in cross-functional design forums, translating product and stakeholder goals into reliable, maintainable systems — and mentors the engineers who build on them.

EXPERIENCE

Trax Aero — Hybrid | Software Engineer - Frontend Architecture & Platform

December 2025 - Present

Building a next-generation aerospace MRO platform as a Module Federation system spanning six codebases — a thin host shell, independently deployable domain remotes (including an Admin, DocSync and Trax App), a shared TypeScript API client, and a React/Ant Design component library.

- **Owned frontend architecture** for a next-generation aerospace MRO platform spanning six interconnected codebases — selecting the stack (React 19, TanStack, Vite, Bun, Module Federation), establishing coding standards and design patterns, and defining a Vitest/Testing Library strategy enforced as CI gates that held the platform to a ~0.5% revert rate over ~980 commits.
- **Proposed and led the platform's re-architecture from a single-app monolith to a Module Federation system** — extracting operational domains out of a fat host into independently deployable remotes so the host slims down to a thin shell — securing leadership buy-in through architectural proposals in twice-weekly design forums that aligned engineering with product and stakeholder goals.
- **Architected and published two shared libraries to AWS CodeArtifact** — a pure-TypeScript API client and a 50+ component React/Ant Design library with a custom design-token system — delivering unified, type-safe access to 289 endpoints across 19 backend microservices, plus reusable charts, virtualized infinite-scroll tables, and consistent light/dark theming to every consuming app.
- **Led architectural decision-making and cross-functional meetings** defining the CRUD module strategy across 6 operational domains (Aircraft, Defects, Requisitions, Engineering Orders, P/N Inventory, User/Group Management) — standardizing form patterns, validation, component reuse, and feature-key/permission gating for group-level, role-based access control — to cut duplication and speed delivery.
- **Designed the platform's authentication layer on Keycloak OIDC** (PKCE flow), achieving zero manual token management across all apps via Axios interceptors for automatic JWT injection and 401-triggered token refresh.
- **Established the CI/CD and deployment architecture across all six repos** — Docker multi-stage builds, Kubernetes/Helm, and AWS CodeBuild/CodeArtifact/ECR — with tests run inside the image build as the real CI gate.
- **Built reusable Claude Code skills and persistent-memory workflows** that codify platform conventions and automate scaffolding a new federated app plus its full CI/CD pipeline — cutting new-app standup from days of manual setup to a single command.
- **Designed a multi-page in-memory caching layer** for virtualized infinite-scroll tables (TanStack Table + React Virtual), eliminating redundant network calls by serving filter and pagination changes from cache for near-instant client-side response.

TECHNICAL SKILLS

Languages:

JavaScript, TypeScript, HTML5, CSS3, Sass, Java, Python, C

Frontend:

React, Ember.js, Vue.js, TanStack (Router, Query, Table, Virtual), Ant Design, Tailwind CSS, Redux, Glimmer.js, jQuery, Handlebars, Chart.js, dnd-kit, Unity

Backend:

Node.js, Express, Firebase (Auth, Hosting, Firestore, Cloud Functions), MongoDB, Mongoose, SQL, NoSQL

Tools & Platforms:

Git, Docker, Kubernetes/Helm, AWS (CodeBuild, CodeArtifact, ECR), Bun, Vite, Vitest, Storybook, Jira, Confluence, ESLint, Prettier, Agile/Scrum, GitHub, VS Code

AI Tools:

Warp, Cursor, VS Code, Claude Code, Windsurf, GPT-5, Gemini

EDUCATION

University of Central Florida, Orlando, FL — Computer Science

August 2016 - April 2021

Bachelors of Science in Computer Science

CONTINUED SELF LEARNING

Ui.Dev — React Course

Classic React - React Overview Course

- **Established i18next as the platform-wide internationalization standard**, delivering 7-language support (English, Spanish, French, German, Portuguese, Japanese, Chinese) across every app and guarding it with a CI translation-key parity test so no locale drifts out of sync.
- **Mentored frontend engineers and onboarded an intern with a production-ready starter** — a standalone, deployable federated shell with its own CI pipeline and isolated authentication, generated from that tooling — accelerating ramp-up with zero risk to production apps.

Solid Code Solution LLC — Remote | Full Stack Engineer

May 2025 - December 2025

- Delivered production-ready products for multiple clients by architecting scalable React front-ends and RESTful Node.js APIs from concept to deployment.
- Reduced backend infrastructure overhead by designing Firebase Firestore databases and Cloud Functions to handle business logic and third-party service integrations serverlessly.
- **Street Cat Clinic**: Streamlined operations for a TNR organization by building a web application that centralized trapper and cat data management and automated MDAS TIP form generation.
- **Meow Max**: Improved appointment accessibility and staff efficiency by developing a mobile-first scheduling app that enables trappers to book clinic visits and staff to manage daily queues.
- Maintained predictable application state across complex UI flows by implementing Redux and React Context API, while contributing to CI/CD pipelines for smooth release cycles.
- Stack: TypeScript, React, Redux, Node.js, Firebase (Auth, Hosting, Firestore, Cloud Functions), Tailwind CSS, REST APIs, Vite.

SmartRent — Remote | Software Engineer

August 2021 - April 2025

- Drove client satisfaction across a diverse customer base by delivering 45+ software releases including 12 major feature launches using Ember.js with a focus on scalability, usability, and performance.
- Improved application security, performance, and long-term maintainability by leading the core system upgrade from Ember.js 1.10 to 2.18.
- Extended changelog visibility to web and native mobile audiences by developing a dynamic activity feed feature using Glimmer.js and TypeScript in a standalone application.
- Enabled custom enterprise reporting for SightPlan's second largest client (Lincoln, 500k units) by designing a standalone PDF generation service using Node.js, Puppeteer, Handlebars partials, S3, and RabbitMQ.
- Increased company revenue by modernizing multi-year legacy UI code into current, client-friendly layouts through collaboration with cross-functional teams (product, QA, design, backend, mobile).

Fundament Secrets — Full Stack Engineer

April 2021 - August 2021

- Delivered a full-featured MERN application by leading both frontend and backend development, including database design, API architecture, and deployment
- Enabled blockchain data access within the platform by integrating third-party APIs via GraphQL
- Supported real-time data requirements by administering Firebase Cloud Functions and real-time databases for core backend operations

United States Air Force — Emergency Management Specialist

January 2012 - January 2018

- Developed contingency and disaster preparedness plans
- Participated in emergency operations, supporting personnel and EOC coordination

React.gg - Interactive way to master Modern React (Concurrent Rendering, Hooks)

React + Typescript - Modern React Course

Anthropic Course — Self Learning

Claude Code in Action

Building with the Claude API

Introduction to Model Context Protocol

Udemy — My Learning

JavaScript Algorithms and Data Structures Masterclass

React - The Complete Guide

PERSONAL PROJECTS

Who's Bring What — Potluck App

React and Firebase Based Web App for creating Potluck events and inviting friends.

[Who's bring what](#)

Ominous — 2D Platformer

A stealth 2D platformer where players use sound and visibility mechanics to avoid enemy detection.

[Ominous](#)