

Harold Peñaloza

Frontend Software Engineer

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SUMMARY

Frontend Software Engineer with 5 years of React experience building and modernizing B2B SaaS product interfaces, complex dashboards, design-system components, and frontend testing infrastructure. Delivered migrations and reusable UI across a large IoT platform, including a Jest-to-Vitest migration that cut the test pipeline from roughly 2 hours to 30 minutes. Focused on maintainable product UI, reliable delivery, and clear engineering collaboration.

EXPERIENCE

Ubidots S.A.S. — Frontend Developer

February 2021 — April 2026 · Colombia / Remote

- Built and maintained React-based frontend features across the Ubidots IoT platform, including dashboards, widgets, organizations, data tables, forms, and enterprise-facing workflows.
- Reduced frontend test pipeline time from roughly 2 hours to 30 minutes by leading the migration from Jest to Vitest.
- Led the frontend migration of the Organizations module to the internal Vulcan UI design system, delivering independently with tests and no critical production bugs.
- Created and maintained reusable components for Vulcan UI, helping standardize product interfaces across the platform.
- Modernized legacy views, widgets, tables, and platform foundations through React Query, shared UI abstractions, the React 16-to-17 upgrade, and dependency updates.
- Improved delivery through regular code review and by helping engineers navigate complex repositories, tooling, and frontend workflows.

PROJECTS

Synapse Loom

Local-first notes and learning workspace that turns Markdown into connected knowledge and spaced-repetition review.

[synapseloom.app](#) · [app.synapseloom.app](#)

- Built a shared React 19 and TypeScript interface for an installable PWA and Tauri desktop client, backed by Rust domain logic.
- Persisted browser data with SQLite compiled to WebAssembly over OPFS, enabling offline use and optional cross-device sync.

HarpeBlue Signal

Framework-agnostic visual identity system built with CSS tokens, themes, utilities, and examples.

[github.com/HarpeBlue/harpeblue-signal](#) · [harpeblue.github.io/harpeblue-signal](#)

- Created a reusable visual foundation without depending on a specific frontend framework.
- Built a public playground and documentation examples using pure CSS and lightweight JavaScript.

SKILLS

Frontend: React, Astro, JavaScript, TypeScript, HTML, CSS, CodeMirror 6

State and Data: Redux, Context API, React Query, Formik, SQLite

Testing: Jest, Vitest, React Testing Library, Cypress

Runtime and Delivery: Rust, WebAssembly, OPFS, Tauri 2, PWA, Cloudflare Workers

Tooling: Vite, Webpack, Rspack, Git, GitHub, npm

UI Systems: Design systems, responsive UI, dashboards, reusable components

Workflow: Code review, frontend migrations, Linux, AI-assisted development

EDUCATION

Platzi Master, Cohort 2

Practical software development training focused on collaborative engineering projects and technical growth.

LANGUAGES

Spanish: Native

English: Intermediate