

LUIS DIEGO CARVAJAL

Senior Frontend Engineer | React / TypeScript | Microfrontends | Design Systems & Accessibility

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Puntarenas, Costa Rica | Remote | UTC-6 (full overlap with US business hours)

PROFILE

Frontend engineer with 5+ years building scalable, accessible web applications. Co-led the migration of TransUnion's Credit Market Operating System frontend from a monolith shared by 8 teams into 13 Module Federation microfrontends; owner of design-system tooling, WCAG 2.2 implementation and AI-assisted development infrastructure (MCP servers, custom AI skills, AI review rules that cut pull request review time by 30%). Founder of Qora.dev, where I ship multi-tenant SaaS products end to end on React, TypeScript, Supabase and PostgreSQL, currently serving gyms, dance academies and pilates studios.

WORK EXPERIENCE

Frontend Engineer | TransUnion, Costa Rica (Remote)

05/2024 - Present

Credit Market Operating System, enterprise credit data platform

- **Microfrontend Architecture:** Co-led, with the team's manager and one other engineer, the migration of a monolithic frontend shared by 7 large teams into 11 Module Federation microfrontends (one per navigation module), enabling independent deployments per team and reducing deployment friction.
- **Developer Tooling:** Built a CLI that automates microfrontend configuration and scaffolding, cutting new-microfrontend setup from about 4 hours to 5 minutes.
- **AI-Assisted Engineering:** Built custom AI skills and MCP (Model Context Protocol) servers for the corporate design system so AI coding tools apply frontend standards automatically; authored AI-powered review rules in Harness that reduced pull request review time by 30% and improved review consistency across teams.
- **Design System:** Built scalable, accessible components in React, Vue 3, TypeScript, Storybook and Sass for the corporate design system.
- **Accessibility & Standards:** Implemented WCAG 2.2 across entire modules, improving usability and regulatory compliance; authored company-wide frontend development guidelines.
- **Mentorship:** Mentored developers in frontend best practices and architecture.

Technologies: Vue 3, React, TypeScript, Pinia, Storybook, Sass, Module Federation, Node.js, Harness, MCP

Founder & Full Stack Developer | Qora.dev, Costa Rica (Remote)

04/2023 - Present

Software development studio. Three vertical SaaS products (gyms, dance academies, pilates and movement studios) built on one shared multi-tenant architecture: Supabase + PostgreSQL with row-level security, Edge Functions and pg_cron; plus custom client work.

- **PrimeFit.coach:** Gym management SaaS built as an offline-first PWA. Multi-tenant platform with role-based access control and real-time workout tracking; workouts logged offline are queued in IndexedDB (Dexie) with idempotency keys and synced on reconnect, and service-worker updates are deferred so a live workout is never interrupted. Layered security from UI to database (Supabase Auth, row-level security, SECURITY DEFINER RPCs). In production for about 2 years with a founding gym client (over 130 registered members, 70 daily active app users). (React 18, TypeScript, Vite, Redux Toolkit, Workbox, Dexie, Supabase, PostgreSQL, Tailwind CSS)
- **MoviFit (movi.fitness):** Class booking and membership SaaS for pilates and movement studios, in production. Pura Vida Moves (puravidamoves.com) runs its studio on it: 61 enrolled students book classes and manage monthly memberships through the app. Multi-tenant data model with guardian/ward registration, credit-based plans on an append-only ledger, self-enrollment via database RPCs, per-studio public sites rendered from a Postgres view, RLS tenant isolation. (React, Vite, TypeScript, Supabase, PostgreSQL, pgTAP, Resend, Cloudflare Workers)

- **GetDask.com:** Dance academy management SaaS. Multi-tenant platform (branded subdomain per academy) with student management, payment tracking, attendance control and automated notifications; automated monthly charge generation and payment validation with Supabase Edge Functions and pg_cron. 5 academies onboarded; cuts about 10 hours per week of administrative work. (React 18, TypeScript, Supabase, PostgreSQL, Tailwind CSS, Zustand, Astro)
- **BuzzRefer (buzzrefer.club, US client, phase 1, Dec 2025 - Feb 2026):** Two-sided referral platform for home-service businesses; businesses set 3-tier commission rates and customers earn lifetime commissions on transactions from the people they refer. Built the commission engine in PostgreSQL: triggers that build each customer's 3-level referral chain at signup and assign commissions when a transaction completes, CHECK constraints capping total payout at 100%, and an auditable wallet ledger. Row-level security and RPCs that expose only minimal data on public referral pages; Deno edge function for batched referral emails. Delivered in two months and handed off to the client's team. (React 18, TypeScript, Vite, TanStack Query, Zustand, Supabase, PostgreSQL, Deno, Tailwind CSS, shadcn/ui, Vercel)
- **Costa Rica SBK Fest:** Official site for one of Central America's largest international Latin dance festivals (in development, 2026), built on Astro with Onvopay payment integration for registrations and a custom CMS in the admin panel. (Astro, JavaScript, CSS, Supabase)
- **Client projects:** Custom landing pages and web applications focused on performance and UX, including a VPN certificate management system (Angular 16, Flowbite). (React 18, Next.js, Astro, Angular 16, React Native, TypeScript)

Full Stack Developer | 5e Creative Labs, Costa Rica

05/2021 - 02/2023

Digital agency and media

- **Media Platform:** Developed and maintained the CMS and main website of La República, one of Costa Rica's leading news outlets; improved site performance by 16% by cutting CSS from 18,000 to 12,000 lines through optimization and modularization.
- **Electronic Invoicing:** Developed and maintained an e-invoicing system integrated with Costa Rica's Ministry of Finance (Hacienda) API, processing thousands of transactions per month.
- **Product Development:** Built Widu (TypeScript, React, Node.js) and Nativopass, a coupons and discounts mobile app (Laravel, Vue.js, CapacitorJS); developed reusable React components for WordPress (Semanario Universidad).

Technologies: React, Vue.js, TypeScript, Node.js, PHP, Laravel, Statamic CMS, WordPress, CapacitorJS

TECHNICAL SKILLS

- **Frontend:** React (5+ yrs), TypeScript (4+ yrs), JavaScript (5+ yrs), Vue 3 (3+ yrs), Next.js, Astro, Angular, React Native
- **Architecture & State:** Microfrontends (Module Federation), component-driven development, Redux Toolkit, Zustand, Pinia, Storybook
- **Design Systems & Accessibility:** WCAG 2.2, Sass/SCSS, Tailwind CSS, shadcn/ui
- **Backend & Data:** Node.js, Supabase (Auth, RLS, Edge Functions, Realtime), PostgreSQL (4+ yrs), Laravel
- **AI Engineering:** MCP servers, custom AI skills, AI-assisted code review (Harness), AI coding agents (Claude Code)
- **Tooling & Delivery:** Git, GitHub, Docker, Jest, Vite, Harness CI/CD, Vercel, Cloudflare
- **Spoken Languages:** Spanish (native), English (B2, professional working proficiency)

EDUCATION

- **Bachelor's Degree in Business Informatics,** Universidad de Costa Rica, 2017 - 2021