

ANDRÉS CASTILLO QUESADA

Senior Frontend Engineer & Architect · React · Next.js · TypeScript · Three.js · Design Systems
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PROFESSIONAL SUMMARY

Senior frontend engineer with 13 years of experience building high-performance web applications for Fortune 500 brands including Walmart, Vans, Oreo, and USAA. Specializes in scalable design systems, interactive 3D/WebGL experiences, and API-driven frontend architecture across React/Next.js and Vue. Currently sole technical lead on a production AI/ML SaaS platform spanning NestJS, PostgreSQL, and AWS — seeking a full-time remote role where deep frontend craft meets end-to-end technical ownership.

CORE SKILLS

Frontend React · Next.js (App Router) · TypeScript · Vue / Nuxt · Three.js / WebGL · GSAP · Tailwind CSS · SCSS & Design Systems · Storybook

Backend & Infrastructure Node.js / Express · NestJS · PostgreSQL · MongoDB · MySQL · REST / GraphQL · AWS · Docker · CI/CD (GitHub Actions)

Also worked with Angular · Adobe Experience Manager · Drupal · WordPress · Figma · Agile / Scrum (CSM)

EXPERIENCE

Freelance Full-Stack Engineer & Technical Lead · UniwatchJan 2026 – Present

AI-Powered IP Vigilance SaaS — Sole Technical Owner

- ▶ Sole engineer on a production AI/ML platform monitoring new trademark filings for enterprise clients across Latin America, flagging phonetic, semantic, and visual conflicts above a 50% similarity threshold so clients can file legal oppositions within statutory windows.
- ▶ Took ownership of an undocumented, single-maintainer codebase and stabilized it across three AWS EC2 instances — an Express.js BFF, a NestJS + PostgreSQL REST API, and a dedicated TensorFlow execution server running nightly similarity jobs against a 2M+ record trademark corpus.
- ▶ Completed a full architecture audit and authored the platform's first technical documentation, eliminating a single-point-of-failure risk that had blocked the business from onboarding additional engineers.
- ▶ Designed the CI/CD migration path replacing manual SSH-triggered nightly jobs with automated, monitored pipelines.

Technology Architect (Senior Frontend Engineer) · Publicis Global DeliveryJul 2021 – Dec 2025

Walmart Connect — Design System Lead

- ▶ Sole owner of the Walmart Connect design system: architected and shipped the SCSS token and component library consumed by the full 3–5 engineer delivery team, standardizing UI across the entire site.
- ▶ Built themeable SCSS partials and utility patterns so new components were composed from existing tokens rather than styled from scratch — cutting delivery of a new AEM component from 3–5 days to 1.
- ▶ Led UI/UX prototyping with design stakeholders, translating Figma specs into production-ready Adobe Experience Manager component templates.

Vans Customizer — 3D Web Experience

- ▶ Spent three years on the Vans 3D Shoe Customizer, an award-winning Vue + Three.js configurator delivering real-time photorealistic shoe personalization to millions of users.
- ▶ Architected and shipped the customizer's image library and randomizer features, letting users apply uploaded artwork, graphics, and randomized textures to individual shoe components — including the warping and UV-mapping logic required to project 2D artwork accurately onto curved 3D geometry.
- ▶ Hardened the selection and real-time preview layer of the configurator, resolving hundreds of defects across customization state and 3D model previsualization.

Oreo Space Dunk — Interactive Campaign Experience

- ▶ Built the frontend animation and interaction layers for the Oreo Space Dunk global campaign — a launch partnered with Google and Space Perspective, covered by Fast Company and Space.com.

USAA Bank & Pharmaceutical Campaigns — Interactive Frontend

- ▶ Developed interactive landing pages in vanilla ES6+, HTML5, and SCSS, including multi-step forms, client-side validation, and accessible reusable UI components.
- ▶ Shipped a suite of pharmaceutical campaign pages on AEM, meeting strict regulatory and brand compliance without compromising mobile-first performance.

Additional Engagements — Wegmans, Publicis Groupe Careers

- ▶ Delivered frontend features across React, Vue, Next.js, Angular, AEM, and Drupal, and introduced CI/CD and GitHub Actions workflows later adopted by other teams.

Freelance Frontend Developer & Consultant · Multiple Agencies *Jan 2020 – Jun 2021*

- ▶ Delivered full-cycle frontend projects for The Hangar Interactive (HomeAdvisor web app), Wondersauce (CrowdStrike streaming platform), and Uruk Editores, owning delivery from client brief through QA and launch.
- ▶ Built and maintained Angular + .NET enterprise applications, and introduced Agile and CI/CD workflows for clients with no existing delivery process.

Frontend Developer → Frontend Team Lead · Oktara Software Development *Nov 2013 – Dec 2019*

- ▶ Grew from junior developer to frontend team lead over six years, running delivery teams of 2–6 developers on Angular.js and Angular 2+ projects.
- ▶ Led the migration of 10+ production applications from legacy PHP/jQuery codebases to modern Angular architectures, replacing unmaintained code with testable, componentized frontends.
- ▶ Built custom WordPress and Drupal themes and plugins from scratch, and was an early adopter of Node.js tooling (Webpack, Babel, Gulp).

SELECTED PROJECTS

castilloquesada.com — Portfolio & Engineering Case Study Platform

- ▶ Next.js (App Router), TypeScript, Tailwind CSS, SCSS Modules, GSAP + ScrollTrigger, Lenis; deployed on Vercel with a Playwright regression suite. Built as a production-grade reference for animation architecture and component design, with technical case studies on the Vans customizer, Walmart Connect, and Uniwatch.

EDUCATION & CERTIFICATIONS

Associate Degree in Web Design & Development · Cenfotec University *2012 – 2013*

Certified Scrum Master (CSM) · Scrum Alliance *2025*