

Micaela Avigliano

Senior Frontend Developer

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About me

Senior Frontend Engineer with 6+ years building scalable, high-performance web applications in React, Next.js, and TypeScript. Strong background in component architecture, design systems, microfrontends, performance optimization, and testing infrastructure, with deep accessibility expertise (WCAG 2.2 AA, ARIA, EAA, ADA) applied across every layer of the stack. Experienced in AI-assisted development using Claude, Claude Code, GitHub Copilot, and Gemini, pairing AI-generated implementation with developer-led validation. Author of a public library of component patterns consumable as AI skills. Contributed to platforms across finance, e-commerce, streaming, and agriculture, shipping to 28+ markets with global teams.

Experience

Nespresso

Frontend Developer and Accessibility Engineer | Jan 2025 – current, Remote

Lead frontend engineer for core HQ UI components serving 28+ international markets. Own architecture decisions, performance, and accessibility across the e-commerce platform, working as a technical bridge between Design, Product, and Engineering.

- Architected core HQ UI components in React, TypeScript, and Next.js, owning shared primitives, state patterns, and integration contracts with downstream market teams.
- Engineered semantic HTML and ARIA architecture that simultaneously meets WCAG 2.2 AA, EAA, and Generative Engine Optimization (GEO) goals, improving discoverability for AI-driven search alongside accessibility compliance.
- Built automated testing pipelines with Playwright for web and BrowserStack for iOS/Android, catching frontend regressions across devices before reaching production.
- Designed a digital-health monitoring system in PowerBI tracking performance, frontend errors, and accessibility regressions across regions, enabling proactive resolution..
- Authored accessible component-pattern skills consumable by AI agents, accelerating delivery while preserving quality bars across teams.
- Acted as primary technical consultant between Design, Product, and Engineering for complex UI/UX patterns and accessible implementation.
- Created technical documentation and ran developer webinars on component architecture, AI-assisted workflows, and accessible, discoverable frontend patterns.

Freelance

Frontend Developer | Sept 2024 – current, Remote

Frontend development consultancy for brands and startups, delivering performant, scalable solutions in React, Next.js, and TypeScript with AI-assisted workflows and accessibility built in.

- Built AI-assisted developer tooling on personal projects, including an ATS-friendly CV builder (friendly-ats-cv-creation) consuming and generating data via the Gemini API, and a Claude Code skills library (frontend-skills) covering accessibility, SEO, GEO, and AEO.
- Authored a public library of reusable component patterns and SEO/GEO/AEO optimization skills used to enforce consistent quality across client and personal work.
- Pair AI-assisted implementation with developer-led validation, reviewing AI-generated output for state correctness, focus management, ARIA semantics, and keyboard operability before it ships.

Harley-Davidson

- Component Architecture: Engineered a library of reusable React components in Next.js and Tailwind CSS, documented in Storybook, with focus management, keyboard navigation, and WCAG 2.1 compliance built in.
- Microfrontend Integration: Contributed to a complex microfrontend architecture, ensuring shared components maintained consistent interaction and state patterns across disparate brand modules.
- High-Traffic UI Development: Built homepage elements, overlays, and modal systems for a high-traffic site, isolated and tested through Storybook.

BiomeMakers

- Built internal dashboards and printable PDF report generators for agricultural analytics.
- Developed UI in Nunjucks, vanilla JavaScript, HTML, and CSS, including reusable card, table, and data-visualization components.
- Owned client communication and delivery management end to end.

Supra

- Designed and shipped a full marketing site for a construction/engineering services company from scratch.
- Built in Next.js, TypeScript, and Tailwind CSS with Contentful as the headless CMS, deployed on Vercel.
- Architected site structure for responsive layouts, SEO, and performance.

SmartAsset

Software Engineer | Jan 2024 – Oct 2024, Remote

- Full-Stack Migration: Spearheaded the transition from a legacy architecture to a modern React, TypeScript, and GraphQL stack, improving long-term maintainability and increasing user engagement.
- Next.js and SSR Strategy: Built efficient Server-Side Rendering patterns for complex features like pagination and data-rich dashboards using Apollo and Next.js, balancing SEO requirements with high-speed data fetching.
- Performance Optimization: Revitalized Core Web Vitals by engineering a custom image optimization pipeline in WordPress, significantly improving Largest Contentful Paint (LCP) scores and mobile performance.
- Scalable Feature Engineering: Developed financial filters, dynamic modals, and other high-performance tools with consistent state management across blog and dashboard surfaces.
- Data-Driven Revenue Growth: Integrated Optimizely SSR for A/B testing with complex geolocation- and behavior-based user segmentation, directly increasing platform revenue through targeted ad delivery.

Ceres Imaging

Frontend Developer | Jan 2023 – Aug 2023, Remote

- Geospatial Visualization: Built advanced dashboards and map-based tools in Mapbox with Vue/Vuex, enabling growers across three continents to visualize agricultural analytics in real time.

- Architecture Evolution: Key contributor to migrating internal analytics dashboards from a Django-based system to a modern Next.js and GraphQL architecture, improving interactivity and performance.
- Platform Stability: Identified and resolved critical geolocation bugs, improving data-layer accuracy for international clients.

Indeed

Frontend Developer and Accessibility Analyst | Sept 2021 – Jan 2023, Remote

- Testing Infrastructure: Increased unit test coverage from a legacy baseline to 85% by migrating the testing suite to React Testing Library, drastically reducing regression bugs in consumer-facing flows.
- Component Governance: Refactored legacy code into a library of reusable components documented in Storybook, accelerating the development of new user flows.
- UX Problem Solving: Engineered custom focus management systems to resolve complex keyboard navigation issues, ensuring a seamless experience for users with motor or visual impairments.
- A11y Remediation: Led the accessibility overhaul for multiple high-traffic platforms, ensuring strict WCAG 2.1 AA and ARIA compliance.

Telecom Argentina

Frontend Developer | Nov 2020 – Sep 2021, Buenos Aires

- Smart TV Engineering: Developed custom spatial navigation logic for the Flow Smart TV app, optimizing the remote-control interaction model for a high-traffic media platform.
- High-Traffic Reliability: Engineered a queue system that maintained platform stability during peak traffic events such as live sports, ensuring a consistent user experience.
- Modernization: Contributed to a monorepo strategy and migrated legacy Vanilla JS and Redux code to a modern Next.js, TypeScript, and React Context stack.

eSSENTIAL Accessibility

Accessibility Analyst | Dec 2019 – Aug 2020, Buenos Aires

- Conducted accessibility audits for global finance, retail, and food brands using axe, NVDA, JAWS, VoiceOver, and keyboard navigation; evaluated compliance under WCAG 2.1 AA.
- Implemented remediation with HTML, CSS, JavaScript, and React; delivered accessibility reports and action plans to clients.
- Mentored junior testers and collaborated with cross-functional SCRUM teams to align technical and non-technical stakeholders.

Accenture

Software Developer | Jun 2019 – Dec 2019, Buenos Aires

- Built and maintained responsive web interfaces in Vue.js, JavaScript, and HTML/CSS for enterprise applications.
- Integrated applications with Node.js backend services and AWS cloud deployment.
- Refactored UI components to improve performance, responsiveness, and accessibility.

Technical Skills

- **Core Frontend and Architecture:** JavaScript (ES6+), TypeScript, React, Next.js, Vue.js, HTML5, CSS3, Microfrontends, Monorepos.
- **Design Engineering and Web Accessibility (A11y):** WCAG 2.1/2.2, ARIA patterns, Focus Management, Keyboard Navigation, Tailwind CSS, Storybook, Material UI.

- **AI-Assisted Engineering:** Claude Code, Gemini API integration, Agentic Automation, Generative Engine Optimization (GEO/AEO).
- **State and Data Management:** GraphQL (Apollo), Redux, React Context, REST APIs, Contentful, Headless CMS.
- **Testing and Quality Assurance:** Playwright, React Testing Library (RTL), Jest, Cypress, Axe, BrowserStack, Core Web Vitals.
- **Languages:** Spanish (Native), English (Bilingual), Italian (B1).