ALEJANDRO CASTRO QUINTERO

Montevideo, Uruguay
+59897101239
alejandro.castro.q@gmail.com
linkedin.com/in/alejandro-castro-quintero
https://www.acqme.dev/

PROFESSIONAL SUMMARY

Senior Frontend Engineer with **12+ years of experience** architecting scalable web applications and high-performance UI systems. Specialized in the **React ecosystem (Next.js, TypeScript, State Management)** with a proven track record of modernizing legacy architectures and optimizing Core Web Vitals. Experienced in leading technical decision-making, mentoring engineering teams, and bridging the gap between design, backend, and business requirements in Agile environments.

SKILLS

Core Frontend: React 18+, TypeScript, JavaScript (ES6+), Next.js, HTML5, CSS3/SCSS.
Routing, State & Data Fetching: Zustand, React Context, TanStack Query (React Query), TanStack Router, Redux (Legacy maintenance).
Architecture & Tooling: Micro-frontends, Webpack, Vite, Babel, CI/CD (GitHub Actions).
Testing & Quality: Jest, React Testing Library, Playwright.
Backend & Integrations: Node.js, GraphQL, REST APIs, Ruby on Rails (Proficient), Salesforce (LWC/Aura).
Cloud & Platforms: AWS (CloudFront, S3), Vercel, Netlify, Twilio Flex.

EXPERIENCE

Sr.Frontend Engineer — Endava

Nov 2024 — Present

- **Architecting scalable frontend solutions** using **React** and **Gatsby**, shifting focus from legacy rendering to Modern React patterns (Hooks, Functional Components) to enhance maintainability.
- **Driving Core Web Vitals optimization** by implementing advanced **React code-splitting**, component lazy loading, and route-based chunking, directly impacting SEO rankings and Time to Interactive (TTI).
- **Enforcing inclusive design** by integrating **a11y** testing into the React component lifecycle, ensuring WCAG 2.1 compliance across all UI interactions.
- **Standardizing the frontend codebase** by introducing strict TypeScript typing and creating reusable, atomic React components, reducing technical debt and accelerating feature delivery for the team.
- **Mentoring junior engineers** on React anti-patterns, state management best practices, and rendering performance (minimizing wasted re-renders), fostering a culture of engineering excellence.

Sr.Frontend Developer — Persintel

Jan 2018 — Oct 2024

- **Spearheaded the frontend architecture** for the core Back Office application, migrating legacy logic into a high-performance **React SPA** ecosystem.
- **Engineered a complex state management system** using **Zustand**, moving away from prop-drilling to a centralized, atomic state model that reduced boilerplate and improved data consistency across modules.

- **Built the custom Twilio Flex integration** from the ground up, utilizing **React Context** for global session management and custom hooks to handle real-time WebSocket events, increasing operator efficiency by 20%.
- **Optimized critical rendering paths** by utilizing useMemo, useCallback, and React Profiler to identify bottlenecks, successfully reducing application load times by **40%** and eliminating UI jank in data-heavy dashboards.
- **Designed and maintained a shared UI Component Library**, establishing a consistent design system that allowed the backend and design teams to iterate 2x faster on new features.
- **Led the migration strategy** for legacy features, ensuring zero downtime while incrementally adopting modern React features and **TypeScript** for type safety.

Salesforce Developer – Altimetrik

2017 – 2018
- **Developed custom Lightning Web Components** using JavaScript and the Aura framework, effectively bypassing standard Salesforce limitations to deliver bespoke UI experiences.
- **Bridged the gap between Frontend and Apex Backend**, optimizing asynchronous data retrieval (LDS) to reduce server round-trips and improve UI responsiveness.
- **Streamlined the release lifecycle** by collaborating with DevOps to implement CI/CD pipelines for Salesforce static resources and component bundles.

Web Developer – La Banca de Quinielas de Montevideo

2016 – 2017
- **Engineered Single Page Application (SPA) features** for high-volume internal dashboards using **AngularJS**, establishing early patterns for client-side routing and state handling.
- **Optimized mobile responsiveness** for critical lottery betting systems using Ruby on Rails and vanilla JavaScript, ensuring performance on low-bandwidth mobile devices.
- **Refactored legacy jQuery codebases** into modular JavaScript patterns, improving maintainability and reducing script collision errors.

.NET Developer – Overactive

2014 – 2016
- **Built robust internal analytics dashboards** using C# (.NET MVC) and JavaScript, enabling real-time data visualization for business stakeholders.
- **Championed Agile adoption** within the team, instituting rigorous code review processes and unit testing coverage that reduced production bugs by 15%.

Full-Stack Developer – Switch | SLM Sistemas | Italcambio
Foundational Experience (2012 – 2014)

- **Delivered full-stack solutions** across .NET and C# environments, handling everything from database design to frontend interactivity with jQuery.
- **Legacy System Modernization:** Specialized in debugging and refactoring complex legacy codebases to improve readability and extend application lifecycles.

EDUCATION
- B.Sc. in Computer Engineering – Universidad Católica Andrés Bello 2012

LANGUAGES
- Spanish (Native)
- English (Advanced)