

ALEJANDRO DEMETRIO CORTEZ ALVAREZ

Senior Software Engineer — Full-Stack (React / TypeScript / Node.js)

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PROFESSIONAL SUMMARY

I help product teams ship scalable full-stack applications with 10+ years of experience building React, TypeScript, and Node.js systems across web and mobile. I've led accessibility compliance, passwordless auth adoption (55% increase), and platform migrations that cut build time by 80% at Holland America Line and Aspiration. I reduce friction between engineering, design, and product—delivering 95% test coverage and CI/CD pipelines that eliminate manual release overhead—and recently completed Anthropic's Claude and Claude Code certifications—AI tools that enhance my development workflows and code quality—demonstrating my commitment to leveraging cutting-edge technology and seeking a Senior/Staff Software Engineer role in the San Francisco Bay Area.

PROFESSIONAL EXPERIENCE

Senior Software Engineer — Marriott International, Inc — Mexico City, Mexico (hybrid)

Sep 2026 – Current

- Developed and maintained Marriott website pages to enhance the user experience.
- Built reusable, responsive, and scalable components based on the Atomic Design methodology.
- Integrated and managed data utilising GraphQL APIs and reusable components through Adobe Experience Manager (AEM).
- Optimised application performance, accessibility, and search engine optimisation (SEO).

Senior Software Engineer — Holland America Line — Pleasanton, CA (remote)

Jan 2023 – Jan 2026

- Led WCAG 2.1 accessibility implementation across web, iOS, and Android, reducing keyboard navigation errors by 30% and demonstrating leadership in accessibility compliance for users with disabilities.
- Led Cordova-to-Capacitor migration for iOS and Android apps, reducing build time by 80% and showcasing your ability to deliver efficient platform improvements.
- Led a passwordless authentication rollout via OwnID across web and mobile, increasing login adoption rate by 55% and drastically reducing support tickets.
- Built and maintained reusable React/Ionic components, improving scalability and consistency across web and mobile codebases.
- Architected complex application state using Redux Toolkit, Redux Persist, Context API, and RxJS reactive patterns to support real-time booking and user session persistence.
- Maintained and upgraded native mobile codebases in Java (Android) and Swift (iOS) for long-term stability and performance.
- Wrote unit and integration tests with Jest, achieving 95% code coverage; maintained CI/CD pipelines in Jenkins to automate deployment and reduce manual release overhead.
- Partnered with designers, QA engineers, and product managers to deliver user-centred experiences across iOS, Android, and Web.

Senior Software Engineer — Aspiration — Pleasanton, CA (remote)

Jan 2021 – Dec 2022

- Built and maintained content models in Contentful, delivering dynamic landing pages via GraphQL to support over 15 marketing campaigns.
- Implemented A/B testing experiments with Optimizely and monitored web performance using SpeedCurve, reducing page load time by 30% across key landing pages.
- Developed reusable React components following Atomic Design and maintained Storybook as the single source of truth for the UI library.

- Owned styling and responsiveness across web components using styled-components and styled-system.
- Implemented GraphQL data loaders in Next.js, improving application performance and data-fetching efficiency.
- Built unit tests with Jest and end-to-end automated tests with Detox, achieving 95% test coverage and reducing post-release defects.
- Built dynamic form templates with Formik for multi-step onboarding flows; maintained legacy AngularJS modules during platform transition.
- Coordinated sprint planning and Agile/Kanban workflows in JIRA across cross-functional teams.

Full-Stack Developer — Ironbit — Mexico City, MX (on-site)

Aug 2018 – Dec 2020

- Led Angular framework upgrades from version 5 to version 9, improving performance, maintainability, and security.
- Migrated the front-end platform from PHP to Angular-based architecture and modernised legacy Backbone.js/Underscore.js/jQuery components into Angular.
- Designed and built backend services and APIs with Node.js and Express.js to support scalable applications.
- Developed Single Page Applications using React, React Router, and React Hooks; designed reusable, modular components.
- Built Angular services and custom pipes for data retrieval, transformation, and presentation.
- Implemented finite state machine modules and applied Dependency Injection to improve flow control and maintainability.
- Participated in the full SDLC within Agile/Scrum teams, from requirements through system and integration testing.

Full-Stack Developer — Telasist — Mexico City, MX (on-site)

Feb 2017 – Jul 2018

- Built a survey management system with Laravel 5.6 and Vue.js 2, delivering KPI dashboards and analytics charts.
- Designed reusable Vue.js components and implemented Vue-chartjs for interactive KPI visualisations.
- Built a custom Axios-based HTTP module for reliable API communication across the application.
- Partnered directly with clients to define UI/UX requirements and delivered solutions in PHP, HTML5, CSS3, and JavaScript.
- Applied Factory, Repository, Singleton, and Dependency Injection design patterns to improve scalability and maintainability.

Full-Stack Developer — Iké Asistencia — Mexico City, MX (on-site)

May 2015 – Jan 2017

- Migrated legacy static HTML front ends to dynamic jQuery and Bootstrap-based architectures.
- Built PHP modules for an in-house ERP system supporting core business operations.
- Improved database design and query performance in MySQL and Microsoft SQL Server.
- Implemented client-side validation and reusable template-based UI elements to ensure data integrity and UI consistency.

CORE TECHNICAL SKILLS

Languages: JavaScript (ES5/ES6), TypeScript, PHP, Go, Shell Scripting

Frontend: React, Next.js, React Native, Ionic, Angular, Redux Toolkit, RxJS, Storybook, HTML5, CSS3, Webpack, Babel

Backend & APIs: Node.js (Express, HapiJS), GraphQL, Apollo, REST APIs, Laravel, CodeIgniter, Zend Framework

Data & Storage: MongoDB, MySQL, MariaDB, MS SQL Server, Firebase

Cloud, DevOps & Tooling: Docker, NGINX, Apache, GitHub Actions, CircleCI, TravisCI, Jenkins, GitHub, GitLab, Bitbucket

Testing & Quality: Jasmine, Karma, Detox, PHPUnit, WCAG 2.1 Accessibility

AI-Assisted Development: Claude, Claude Code (Anthropic) — see Certifications

Practices: Agile/Scrum, CI/CD, Atomic Design, Cross-Platform (iOS/Android/Web) Development

CERTIFICATIONS

- Claude Code 101 — Anthropic Education — Issued Aug 2026 — Credential ID n4g89rfkh69y
- Claude 101 — Anthropic Education — Issued Aug 2026 — Credential ID vbs32nvduqkx
- SCRUM FOUNDATION PROFESSIONAL CERTIFICATE (SFCP) — Certiprof — Issued Jul 2020 — Credential ID FLCLQPDBJS-SDRJRLJH-WHFTWTKFKH

EDUCATION

Master's Degree in Project Management — UNITEC (2017 – 2018)

Bachelor's Degree in Informatics Engineering — National Polytechnic Institute (IPN) (2009 – 2013)