

Erik Henrique Alves Cunha

Senior Software Engineer

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Summary

Senior Software Engineer with 8+ years specializing in Angular, React, Next.js, and Node.js for regulated, high-traffic systems. Built and maintained frontend architecture in fintech (PCI-DSS), healthcare, ed-tech, and e-commerce platforms serving millions of users. Strong track record in performance optimization (LCP, TBT, bundle reduction), WCAG 2.1 AA compliance, and scalable CI/CD pipelines. Remote-first across EU/US time zones. English C1.

Skills

Languages: TypeScript, JavaScript (ES6+), SQL

Frontend: Angular, React, Next.js, StencilJS, RxJS, HTML, CSS, SCSS, JSX

State Management: NgRx, Redux, Redux Toolkit

Architecture: Micro-frontends, Web Components, Component-driven architecture, Reactive, Redux, Clean Architecture

Backend: Node.js, Express.js, REST APIs, Webhooks

Databases: PostgreSQL, MongoDB, Microsoft SQL Server, SQLite

Testing: Jest, Playwright, React Testing Library, Karma, Jasmine, MSW, WireMock

Cloud & DevOps: AWS (CodePipeline, CodeBuild, S3, CloudFront, EC2), Docker, NGINX, Jenkins, GitHub Actions

Performance & Accessibility: Core Web Vitals optimization, WCAG, ARIA

Professional Experience

Senior Frontend Software Engineer

Betsson Group

Malta (EU)

03/2025 – 05/2026

- Owned frontend reliability and architecture for a PCI-DSS compliant payment and cashier platform processing 40M+ annual transactions, generating €1B+ revenue across 15+ regulated markets for a publicly traded operator
- Designed and stabilized stateful multi-step deposit and withdrawal flows using Angular, RxJS, and NgRx, meeting strict audit requirements and regulatory constraints across 15+ jurisdictions
- Delivered a shared multi-brand frontend system supporting 8+ languages, 5+ brand variants, and 10+ currencies (including zero-decimal) within a large-scale Nx monorepo – zero-defect tolerance at the payment layer
- Architected a micro-frontend layer (StencilJS, React.js, JSX, Ember.js), enabling shared payment orchestration across multiple production brands simultaneously
- Built a 12-agent multi-agent AI system (+orchestration) to automate code generation, review, debugging, testing, and architectural validation – increasing engineering throughput and reducing review cycle time across the team
- Created reusable AI-driven engineering workflows (component scaffolding, refactoring, Jira automation), improving developer productivity and delivery consistency
- Established path-scoped engineering standards (Angular, RxJS, NgRx, accessibility, performance, security) enforced directly through AI-assisted automated tooling
- Developed a 35+ page frontend knowledge system with architecture diagrams, reducing engineer onboarding time by ~40% and improving cross-team alignment
- Built automated regression protection with Jest and Playwright, isolating APIs via WireMock to safeguard high-risk KYC and payment flows
- Implemented automated safeguards and lifecycle hooks (Git protections, secret scanning, boundary enforcement), reducing deployment risk and enforcing engineering best practices

Senior Software Engineering Consulting

Canon Medical Systems Brazil

Canada - Remote

04/2023 – 02/2025

- Owned the architecture and delivery of a mission-critical enterprise healthcare operations platform supporting multi-site hospital workflows across a regional network – built with Angular, Nx monorepo, Clean Architecture (DDD 4-layer), and signals-based reactivity
- Built data-dense real-time dashboards using PrimeNG, PrimeFlex, Chart.js, FullCalendar, Bryntum Scheduler, and WebSocket (STOMP/SockJS) integrations across 4 complex operational dashboard views
- Reduced JavaScript bundle size by ~33% and CSS bundle size by ~98% through lazy loading, code splitting, and layout refactoring – improving initial load time by 25%
- Improved Time to Interactive (TTI) by ~52% by eliminating waterfall requests via concurrent async loading, combined with OnPush change detection and component-level performance tuning

- Automated infrastructure and releases with Bash scripting, SSH, and NGINX – reducing manual production update time from ~5 minutes to ~45 seconds, rollbacks to ~1 minute, and environment-specific config changes by ~50%
- Implemented JWT authentication, RBAC, CSRF/XSS protection, and enforced quality gates via Husky, ESLint, and lint-staged across the entire SDLC
- Achieved WCAG 2.1 AA compliance with Lighthouse accessibility scores near 100 across all production views

React Developer **Grupo SBF (Nike Brazil / Centauro)** **São Paulo, Brazil - Remote** **12/2021 – 04/2023**

- Owned frontend performance and reliability for high-traffic e-commerce platforms serving 8M+ monthly users across Nike Brazil and Centauro (LATAM's largest sports retailer)
- Delivered scalable frontend systems using React.js, Next.js, styled-components, and TypeScript in an Nx monorepo – applying SSR/SSG and micro-frontend architecture across 2+ brand properties within a unified commerce platform
- Reduced page load time by ~32% through code splitting, dynamic imports, image optimization, caching strategies, and bundle analysis – improving Core Web Vitals scores by ~12%, primarily driven by LCP improvements
- Improved conversion rate by ~10% by institutionalizing experiment-driven development – delivering and analyzing 20+ A/B experiments with Google Optimize 360 and Google Analytics
- Integrated a WebAR try-on experience into the purchase journey, improving user engagement and contributing to measurable uplift in add-to-cart and purchase completion within the feature flow
- Built and maintained unit and integration test suites using Jest, React Testing Library, and MSW (~70% coverage), protecting 4+ revenue-critical user journeys from regression
- Mentored 4 junior engineers in React and testing best practices, establishing review standards, and increasing test adoption across the team

Frontend Engineer **Encora Inc. (Daitan Group)** **Campinas, Brazil** **01/2021 – 12/2021**

- Delivered enterprise frontend features for complex B2B business applications using Angular, TypeScript, RxJS streams, and reactive forms – integrating client-side workflows with RESTful backend services
- Introduced structured client-side state management through NgRx – organizing actions, reducers, selectors, and effects to stabilize async data flows and reduce UI inconsistency across feature modules
- Built automated testing pipelines using Jest, Karma, and Jasmine – achieving ~70% coverage on core business workflows and significantly lowering regression risk during releases
- Elevated UI accessibility by implementing semantic markup, ARIA roles, keyboard navigation patterns, and smooth CSS transitions across multiple application views
- Integrated Zoom APIs to support in-app meeting scheduling and embedded collaboration workflows
- Contributed to CI/CD delivery pipelines using AWS CodePipeline and CodeBuild, with static assets deployed via Amazon S3 and CloudFront

Frontend Engineer **Zup Innovation (Itaú bank)** **Campinas, Brazil** **04/2020 – 12/2020**

- Developed frontend systems for digital banking platforms operating in regulated environments using Angular, TypeScript, RxJS, HTML, and SCSS – supporting transactional and operational workflows for internal banking teams
- Led modular UI architecture initiatives – designing reusable Angular component libraries and Web Components that enabled micro-frontend integration across multiple banking applications
- Introduced automated regression protection using Karma and Jasmine, expanding test coverage across core transactional interfaces and shared components
- Applied accessibility and compliance standards, including semantic HTML, ARIA roles, and keyboard navigation across banking workflows requiring regulatory validation
- Integrated Angular clients with banking backend services via REST APIs, ensuring predictable data contracts and reliable client-server communication
- Supported CI/CD delivery pipelines using AWS CodePipeline, CodeBuild, S3, and CloudFront – enabling automated frontend builds and scalable deployments

Frontend Engineer **Venturus** **Campinas, Brazil** **11/2019 – 04/2020**

- Developed operational dashboards for toll and transportation management systems processing high-frequency telemetry and transactional data streams using Angular, TypeScript, RxJS, HTML, and SCSS
- Engineered modular Angular components and reactive data flows, enabling real-time monitoring, filtering, and operational analysis across multiple dashboard views and reporting interfaces
- Built client-side CSV export and parsing tools, allowing operational teams to generate large reporting datasets directly from dashboard applications
- Introduced automated testing practices using Karma and Jasmine, improving regression protection across complex data-driven UI components

Volunteering

- **DevOpsDays Campinas – Organizer (2024)**

- Led the full speaker sourcing, evaluation, and selection process across DevOps, cloud infrastructure, platform engineering, and software architecture submissions
- Curated a technical program of 10+ talks and lightning sessions, balancing depth and accessibility for a mixed practitioner audience
- Coordinated with speakers, sponsors, and co-organizers across the event cycle, from CFP launch to post-event wrap-up