



Carlos Gonzalez

PRINCIPAL FE SOFTWARE ENGINEER

Professional Summary

Principal Software Engineer with 8+ years in full-stack development, specializing in high-performance, accessible web apps for regulated healthcare and enterprise environments. Deep expertise in React, Next.js, and Vue.js, with backend proficiency spanning Java/Spring Boot and C#/NET, giving direct fluency across JVM-based and .NET-based enterprise systems, including SAP integrations. Proven track record contributing to frontend architecture and modernization initiatives, mentoring engineers, and partnering with UX, Product, QA, and DevOps. Proactive technologist who stays current with modern frontend tooling, including state management patterns and AI-assisted development.

Employment History

Principal FE Software Engineer, Patterson Companies, Minnesota

APR 2025 – AUG 2026

- Contributed to front-end strategy and execution across multiple SaaS products, focusing on performance, scalability, security, and accessibility in regulated healthcare and dental technology environments.
- Collaborated with a cross-functional team to build two internal portals — an internal Admin Portal and an external Partner Portal — contributing to front-end architecture, component design, and feature delivery across both.
- Architect reusable, accessible UI components using Vue 2.7 and the Composition API, aligning with W3C/WAI-ARIA standards and internal design systems to support enterprise-wide adoption.
- Develop ASP.NET MVC controllers to support application routing and authentication flows — including Azure AD B2C sign-in/sign-out handling and a controller enabling unauthenticated access for a new onboarding page, serving the Vue SPA to unauthenticated users during initial setup.
- Built end-to-end translation infrastructure across the stack — TypeScript interfaces and a Pinia store on the frontend, paired with .NET resource files on the backend — to support multi-language, localized experiences for a Vue-based micro-frontend.
- Contributed to a large-scale migration of Patterson's frontend codebase from Vue 2 to Vue 3 — one of the team's biggest technical lifts — modernizing components and minimizing disruption to in-flight product work.
- Served as a key contributor on Patterson's Bill Pay initiative, one of the company's highest-priority projects, implementing the feature entirely on Vue 2.7 with Vue 3 compatibility.
- Built and maintained a shared component library using Storybook and an internal pattern library toolkit, improving UI consistency, accessibility compliance, and reuse across product teams.
- Maintain hands-on production expertise in React, Next.js, and modern state management (Zustand, Context API) through independent full-stack projects — including a CRM platform and a data-driven tracking application, both built with React/Next.js, Prisma, and Supabase.
- Managed source control and release workflows using Azure DevOps and Azure Pipelines, supporting trunk-based development and pull request review processes across the team.
- Partner with UX and Product teams to deliver interactive, user-friendly experiences — owning the full lifecycle from design spec to production deployment.
- Collaborate closely with QA and DevOps teams to implement CI/CD workflows, visual regression testing, and accessibility compliance using tools such as Vitest and GitHub Actions.
- Partnered with the technical leadership team to drive initiatives in component library enhancements, accessibility and compliance.

Details

North Branch, MN

United States

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Links

[Portfolio Link](#)

Skills

Vue.js

React

Next.js

JavaScript

TypeScript

JAVA

Spring Boot

Zustand

TanStack Query

HTML & CSS

Microsoft Azure

Git

Radix-ui

Tailwind

Vercel

PostgreSQL

Junit

Mockito

Postman

Restful APIs

JIRA

Docker

- Authored technical documentation on modern frontend tooling and best practices — including TanStack Query and Vue 3 patterns — to help keep the team current on evolving technology, supporting component library enhancements, accessibility compliance, and developer onboarding.

Software Engineer, CarSaver LLC, Nashville

MAR 2017 — FEB 2025

- Developed and maintained production web applications for the CarSaver digital retailing platform using JavaScript/TypeScript, Vue.js (2 & 3), Nuxt, and Pinia, improving user experience and reliability.
- Led key initiatives on the Nissan USA integration, building platform features that enhanced the digital car-buying experience for one of CarSaver's largest OEM partners.
- Engineered scalable backend services with Spring Boot and PostgreSQL, optimizing queries and indexing strategies to increase data access performance and system stability.
- Designed and implemented secure RESTful APIs and OAuth2 authentication flows to enable reliable frontend-backend integration.
- Spearheaded customer-facing features including a multi-step vehicle purchase flow, an MFA modal (SMS/email) with retry logic and countdown timers, and a dynamic issue-assignment module to streamline support workflows.
- Applied DevOps best practices with CircleCI and automated CI/CD pipelines to accelerate releases and reduce deployment risk.
- Improved test coverage through unit and integration testing (JUnit, Mockito, Vitest) and validated APIs with Postman to reduce regressions.
- Collaborated with QA, DevOps, and Product in Agile ceremonies to deliver features iteratively and maintain compliance and traceability via Jira.

IT Engineer, Larkin Community Hospital, Miami

JAN 2014 — MAR 2017

- Designed and maintained network infrastructure with Cisco routers/switches, VLANs, and access controls to secure cross-department communications.
- Deployed and optimized enterprise wireless and VoIP systems (Cisco, Avaya) to ensure reliable connectivity for clinical staff and medical equipment.
- Administered Active Directory, vSphere, and Exchange to support provisioning, virtualization, and email services with high availability.
- Reduced system downtime by 25% through proactive monitoring, upgrades, and incident response for mission-critical hospital systems.
- Provided 24/7 desktop and network support while enforcing HIPAA-compliant security protocols and access auditing.
- Ensured full HIPAA compliance in all IT operations, implementing strict security protocols, access auditing, and data protection measures across all digital systems.

Education

Associate of Science in Information Technology & Security, Florida Career College, Miami

JAN 2013 — JAN 2016

Bachelor of Science in Computer Science, University of Orient

JAN 2007 — JAN 2010

Hobbies

Outside of my professional career, I prioritize quality family time, valuing meaningful moments with my loved ones. I am also passionate about CrossFit, which fuels my dedication to discipline, resilience, and continuous self-improvement qualities that I bring into my professional work as well. Additionally, I enjoy hiking, as it allows me to disconnect, challenge myself physically, and appreciate nature's beauty. These activities not only keep me physically and mentally sharp but also reinforce my ability to stay focused, adaptable, and driven in all aspects of life.