

Joseph Bermudez

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SUMMARY

Full-stack software engineer with 4+ years of professional experience building web applications in C#/.NET and TypeScript/React. Currently a software engineer at an automotive company (ASP.NET Core, Vue 3, MySQL) and solo builder of VendorX, a multi-tenant B2B ordering platform with PostgreSQL row-level security, 40 API controllers, 103 pages, Stripe billing, and CI/CD on Azure. Comfortable owning features end-to-end from database schema to deployment pipeline.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, SQL

Frontend: React 19, Next.js 16, Vue 3, Zustand, TanStack Query, React Hook Form, Tailwind CSS 4

Backend: ASP.NET Core (.NET 10), EF Core 10, REST APIs, SignalR, Hangfire, FluentValidation, OpenIddict

Data & Infrastructure: PostgreSQL, Redis, Azure Blob Storage, Azure App Service, Docker, GitHub Actions

Auth & Security: OAuth 2.0/OIDC, RBAC, MFA, SSO/SCIM (WorkOS), JWT, row-level security, audit logging

Integrations: Stripe, QuickBooks Online, NetSuite, ShipStation, SendGrid

Observability & Testing: Sentry, OpenTelemetry, Serilog, Playwright, Vitest, xUnit

AI-Assisted Development: Claude Code (MCP servers, custom skills, agent configs), GitHub Copilot, Cursor, prompt engineering

WORK EXPERIENCE

VendorX Platform — Founder & Lead Engineer | Remote | July 2024 – Present

- Built a multi-tenant white-label B2B ordering platform from zero. First customer: VoltEdge Supply (electrical distribution). Next.js 16 / React 19 / TypeScript frontend, ASP.NET Core .NET 10 / C# 13 / PostgreSQL backend. Solo developer on the entire codebase.
- Designed tenant isolation using subdomain routing, a custom TenantMiddleware that resolves tenant before auth, and PostgreSQL row-level security policies keyed on SET LOCAL app.tenant_id. Every query goes through RLS; no application-layer filtering.
- Shipped 40 API controllers, 253 service classes, 31 frontend feature modules, and 103 routed pages covering orders, quotes, catalog, inventory, pricing, shipping, payments, analytics, notifications, partner operations, and tenant provisioning.
- Built a pricing engine that supports contract pricing, customer-specific price lists, volume-tier breaks, effective-date scheduling, and approval workflows. Each line item carries an audit trail showing how the price was derived.
- Integrated QuickBooks Online and NetSuite (bidirectional OAuth sync with token refresh and cursor-based pagination), Stripe (payment intents, webhooks, idempotency keys), and ShipStation (rate shopping, label generation). Used a transactional outbox pattern with Hangfire to make failed syncs automatically recoverable.
- Implemented auth with OpenIddict as the OAuth 2.0/OIDC provider, five RBAC levels (Customer through Super Admin), MFA, SSO/SCIM through WorkOS, admin impersonation with separate audit trails, and JWT Bearer for API authentication.
- Set up CI/CD via GitHub Actions: build, ESLint (zero-warning policy), dotnet test, Python-based route-consistency guards that verify frontend routes match API controllers, and Azure App Service deployment.
- Test coverage: 22 Playwright E2E specs, 81 frontend test files (Vitest), 69 backend test files (xUnit). Includes dedicated tenant-isolation tests that verify RLS prevents cross-tenant reads.
- Observability: Sentry for error tracking and tracing (via OpenTelemetry bridge), Prometheus metrics at /metrics, Serilog structured logging, and health-check endpoints consumed by the CI pipeline.
- Built custom MCP servers, agent skill definitions, and Claude Code configuration files to accelerate development workflows. Authored project-specific coding standards, ESLint enforcement rules, and architectural guardrails that AI agents follow during development.

Atlantic Coast Automotive Inc. — Software Engineer | Miami Lakes, FL | April 2022 – Present

- Build and maintain internal business applications using ASP.NET Core on the backend and TypeScript with Vue 3 and Pinia on the frontend. Real-time updates via SignalR, full-text search via Elasticsearch, and data stored in MySQL.
- Integrated Azure Blob Storage for internal document management, replacing a shared-drive workflow that had reliability issues.
- Added two-factor authentication and tightened role-based access controls across internal tools.
- Wrote Selenium-based desktop automation scripts that eliminated several hours of manual data entry per week.

EDUCATION

B.A. Computer Science, Florida International University (FIU) | Miami, FL | December 2021