

Wilfredo Pasadilla

FULL-STACK SOFTWARE ENGINEER

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Full-stack software engineer with 4+ years building production workflow software for manufacturing and industrial teams. Owns applications from stakeholder discovery and architecture through frontend, backend, data, delivery, and maintenance. Strongest in workflow systems, integrations, performance modernization, and practical technical direction.

CORE CAPABILITIES

Full-stack

React, JavaScript/TypeScript, Node.js, Express, REST APIs

Data

PostgreSQL, SQL Server, Redis, relational data modeling

Integrations

Business Central, Microsoft Graph, SharePoint, Power BI

Workflow systems

Dynamic forms, approvals, RBAC, notifications, documents

Performance

Query design, payloads, rendering, pagination, client caching

Delivery

Architecture notes, code review, mentoring, stakeholder translation

EXPERIENCE

Alpaca Systems | Calgary, AB | August 2021 - April 2026

Formal progression: Junior Web Developer -> Web Developer -> Full-Stack Developer

- Owned multiple greenfield builds and legacy rebuilds end to end, including requirements, architecture, implementation, deployment coordination, and maintenance.
- Raised application architecture and delivery standards through feature-scoped refactors, stronger API contracts, documentation, code review, and reusable services.
- Mentored developers and briefly coordinated work across concurrent projects while remaining an individual contributor; did not hold formal people-management responsibility.

Enterprise Safety & Compliance Platform | Project technical lead in practice | 2025

- Diagnosed core personnel, equipment, and form workflows across database access, API processing, payload size, React rendering, and caching; reduced common 30+ second waits to a few seconds initially with near-instant cached revisits.
- Introduced Redux Toolkit Query and query-focused backend routes, then documented incremental frontend and backend modernization plans for a production system.
- Built reusable workflow capabilities including database-driven settings, modular form rendering, Power BI email reporting, and Redis/BullMQ notification processing.

Inspection-Management Platform | Primary engineer | 2021 - 2025

- Took over a stalled greenfield application and owned stakeholder discovery, workflow modeling, architecture, implementation, delivery, and maintenance.
- Built dynamic inspection templates, multi-role approvals, notifications, document generation, legacy report import, RBAC, and cross-application data flows.
- Implemented real-time report awareness with Server-Sent Events and room-based updates while using REST for durable edits under an infrastructure constraint that precluded WebSockets.

Field-Ticketing Platform | Solo owner, later primary engineer and mentor | 2022 - 2025

- Rebuilt a stalled field-operations product spanning tickets, rentals, inventory, shipping, invoicing, PDF output, and operational dashboards.
- Designed a reusable Microsoft Business Central integration API and delivered a legacy-to-cloud ERP migration on a fixed deadline despite changing requirements.
- Owned the project solo for roughly two years, then mentored a junior developer and translated stakeholder requests into estimates, dependencies, and staged scope.

Additional Engineering Work | Full-Stack Developer | 2021 - 2026

- Co-built a quality-inspection platform and designed a reusable SharePoint file service through Microsoft Graph; contributed shop-floor process tracking integrated with Business Central.
- Built a drag-and-drop technical-sheet generator, AWS-hosted learning and authentication workflows, and an early Azure DevOps MCP code-review pilot without claiming measured organization-wide impact.

EDUCATION

University of Calgary | Bachelor of Science in Computer Science | 2016 - 2021