

Pierre Salama

Full-Stack Software Engineer — Web & Desktop

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SUMMARY

Full-Stack Software Engineer shipping **production JavaScript/TypeScript, React, Node.js, Python, and Rust** end-to-end — from database migration to CI/CD release to a live UI. Primary developer of an employer's **15+ -app operations platform** (Electron/React on a self-designed shared template, a **Tauri 2 + Rust** rebuild, hourly **Sage 300 ERP** ETL, company-wide CI/CD); sole architect of a **32,000-LOC AI-powered platform** with a **479-case test suite**. Test-first, observe-before-fix, security-by-default.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Rust, SQL, HTML/CSS/SCSS

Web & Desktop: React, Next.js, Svelte, Astro, Tailwind, Vite · Node.js, REST, SSE, Socket.IO · Electron, Tauri, Axum

Data & DevOps: SQLite, MySQL, PostgreSQL (Supabase, RLS), schema design & migrations, ETL · GitHub Actions CI/CD, Docker, Cloudflare Pages

AI / LLM: multi-provider integration (Anthropic, OpenAI, Ollama), local+cloud routing, RAG, MCP, self-learning feedback loops

Testing & Practices: Vitest, node:test, Playwright, TDD · Agile/Scrum, code review, security engineering

EXPERIENCE

Tacel — Full-Stack Developer

2024 – Present

Toronto, ON

- Primary developer of the company's internal operations platform — **15+ apps and services** (14 Electron/React desktop apps, a **Tauri 2 + Rust** rebuild, 2 Next.js sites, Python/Node services) descending from one shared template I designed, plus a **9-package internal npm ecosystem** that hot-updates modules in production without app rebuilds.
- Built the end-to-end **RMA (returns) lifecycle platform** across three coordinated desktop apps — per-item approvals, dual-currency repair costing, credits, cross-app **audit logging**, barcode scanning, thermal-label printing; the shipping app alone spans **~200 IPC channels**.
- Stood up company-wide CI/CD on a **\$0 budget**: GitHub Actions on **self-hosted runners** across **12 repos** — Vitest coverage ratchet, Playwright Electron E2E, an AST-enforced "new functions need tests" gate, Semgrep SQL-injection rules — auto-deploying self-updating installers.
- Engineered the data foundation: a self-healing **Python ETL** mirroring **~50 Sage 300 ERP tables** hourly via per-row **MD5 hash diffs**; a custom cross-app **SSO** (named-pipe + one-time JWT) giving **~2-second** pre-authenticated launches; fully offline AI tooling (**Ollama RAG**, on-device speech-to-text, two **MCP servers**).
- Rebuilt **Tacel.ca** bilingual (EN/FR): bounce rate **-25%**, average Google position **9.6 → 6.1** (**~54%** organic-click growth), lead-gen inquiries **+30%** in 3 months.

Legacy Delta Technologies (LDT) — Founder & Software Engineer

2026 – Present

Toronto, ON · my own software company

- Founded LDT and shipped **TEMPO**, a local-first touchscreen attendance kiosk **deployed in production** at a manufacturing company — a **self-contained Rust (Axum) binary** with SQLite and a React + TypeScript UI served by the binary itself (no Node.js at runtime), **serial barcode scanning**, offline-first storage, Chromium kiosk shell with one-command Raspberry Pi provisioning, and a management console for administration and reporting.

SELECTED PROJECTS

Job Application Tracker (JAT)

sole architect & engineer

[Chrome MV3 extension](#) + [Electron desktop app](#) · private codebase

- Shipped a **local-first job-application tracking & intelligence platform** across **~90 tagged releases** — **~32,000 LOC**: token-guarded REST + SSE server, SQLite with **13 forward migrations**, and a **5-provider LLM chain** (Anthropic, OpenAI, Ollama, Codex CLI, deterministic fallback) with graceful degradation; secrets sealed at rest, loopback-only API, injection/XSS guards.
- Built an **email-intelligence pipeline** (Gmail/IMAP + LLM classification, evidence-quorum truth gating) that updates application statuses automatically; verified by a **479-case test suite** + a DOM-replay harness with **36 real-page fixtures**, all gated in CI with auto-built, self-updating installers.

AYHAN'S Barbershop — commissioned build, sold & delivered

live in production

[Astro 6](#) + [React islands](#) · [Supabase](#) · a complete commercial sale: built, deployed, and handed off to a paying client

- Sold and delivered a revenue-facing site end-to-end: **Supabase Postgres (~20 tables)** with **Row-Level Security**, Edge Functions + **3 pg_cron** jobs, SerpAPI Google reviews, **Twilio SMS** booking confirmations, a self-serve admin console, 16 Vitest tests, and a full client handoff package (admin guide, credentials, deploy log, owner training).

EDUCATION

Honours Bachelor of Science, Computer Science — Toronto Metropolitan University

2020 – 2024

Toronto, ON (formerly Ryerson University) · Last-term GPA 3.8