

Christian Petricca

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About Me

Software Engineering graduate with a passion for making technology accessible, personal, and genuinely useful. I thrive at the intersection of technical depth and human communication — whether that's translating complex systems into clear concepts, understanding what users actually need, or building tools that solve real problems. Naturally curious, independently driven, and energized by work that connects people to technology in meaningful ways.

Skills & Technologies

Languages: Python, Java, C/C++, SQL, JavaScript (Node.js, React) **Tools & Platforms:** Git/GitHub, Azure, MongoDB, PostgreSQL, Express.js

AI & Automation: Agentic workflow design, API orchestration (Anthropic, OpenAI), prompt engineering, iterative AI-assisted development

Core Strengths: Requirements analysis, stakeholder communication, technical writing, user empathy, cross-functional collaboration

Experience

Inside Technical Sales Representative · Evertz Microsystems *Summer 2025 | Burlington, ON*

- Elicited and translated complex client requirements into precise broadcast router system configurations for enterprise clients including NHL/NFL/MLB franchises, major telecoms, and NASA — contracts valued \$50K–\$200K+.
- Achieved 100% quote accuracy after first month, with proposals consistently accepted without revision; developed strong instincts for anticipating unstated client needs.
- Acted as a communication bridge between external sales reps and internal technical teams, ensuring client intent was preserved through the full quoting lifecycle.
- Gained hands-on fluency with proprietary technical tools and internal SQL-style databases to configure and document high-value systems under deadline.

Retail Key Lead · Sessions Cannabis *May 2025 – Present | Hamilton, ON*

- Maintained full AGCO regulatory compliance across all shift operations at a high-volume corporate retail location, consistently meeting the elevated standards of a multi-location provincial chain.
- Consistently exceeded tracked KPIs including units per transaction, attachment rate, and customer satisfaction scores — performance benchmarked against staff across the Sessions network.
- Executed full closing procedures including cash reconciliation, bank deposit preparation, and end-of-day reporting with precision and accountability under tight time constraints.
- Leveraged deep product knowledge to guide a high-traffic customer base toward tailored cannabis recommendations, supporting Sessions' brand promise of education-first, community-centered retail.

Retail Key Lead · Bud Brothers Cannabis *Jul 2022 – May 2025 | Hamilton, ON*

- Managed full independent store operations including compliance audits, cash reconciliation, and inventory — maintaining 100% AGCO regulatory compliance.
- Built trusted advisor relationships with a diverse customer base, consistently translating complex product knowledge into approachable, personalized recommendations.
- Processed and documented OCS shipments valued at \$20K+ per delivery with precision and accountability.

Sales Associate · Adidas Canada *Oct 2018 – Sep 2020 | Vaughan, ON*

- Supported 200+ customers daily in a flagship retail environment; contributed to \$200K+ weekend sales by maintaining high-quality service during peak traffic periods.

Projects

Personal Portfolio Website

2025

- Built a multi-page personal site using Astro (SSG), featuring music reviews, movie reviews, a coding projects showcase, and a fully functional custom Minesweeper game — all from scratch in under 48 hours for under \$3 in API costs.
- Made deliberate architectural choices throughout: Astro for fast static generation, a shared Layout component for consistency, vanilla JS for interactive features like dynamic review selection, and a custom color scheme for the game UI — demonstrating end-to-end product thinking from concept to deployment.

Music Discovery Web Scraper

2025

- Built a full music discovery pipeline targeting AlbumOfTheYear.org using Scrapy, Selenium withundetected-chromedriver (for Cloudflare handling), BeautifulSoup4 for HTML parsing, and SQLite + SQLAlchemy for a local queryable database — reaching 90% functionality in a single evening.
- Solved a real personal limitation: AOTY only supports single-genre filtering, so the crawler enables complex multi-genre, multi-year queries with score and review count thresholds, exporting structured JSON/CSV data including artist, critic and user scores, genre tags, and release metadata.
- Implemented ethical scraping practices from the ground up: robots.txt compliance, 3-second randomized rate limiting, a descriptive user agent, and a phased roadmap covering core scraping, database integration, and a future recommendation engine.

McMaster Engineering Society Reimbursement Platform

Ongoing

- Building a full-stack reimbursement platform (React, Express.js, MongoDB) with role-based access control, audit logging, and PIPEDA-compliant data handling.
- Reduced manual review time by 50% through thoughtful workflow design; implemented CI/CD via GitHub Actions and test coverage with Jest and Postman.

CypherChat — Secure Messaging Application

- Designed and built a secure messaging application in Python, Node.js, and MongoDB; led architectural evaluation and design discussions to deliver a scalable, security-focused system.

Education

B.Eng. Software Engineering · McMaster University

2025 | Hamilton, ON

Relevant coursework: Requirements Engineering, Software Architecture, Human-Computer Interaction, Systems Design