

Joey Hershkop

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EDUCATION

McGill University

Bachelor of Engineering, Computer Engineering

- Engineering Class of 1969 Scholarship
- Antje Graupe Pryor International Award in Engineering
- Dean's Honour List

Relevant Courses: Artificial Intelligence, Data Structures & Algorithms, Discrete Mathematics, Operations Research

Montreal, QC

June 2025

WORK EXPERIENCE

Elroy

Software Developer

Toronto, ON

June 2025 – Present

- Built and shipped end-to-end production features for a B2B SaaS platform, owning PostgreSQL schemas and migrations, REST APIs, React/TypeScript clients, integrations, admin tooling, and automated tests; the product is live with real clients.
- Built an internal LLM-assisted development toolchain with Bash scripts and prompt engineering to assemble repository context; used Cursor across API, React, and Python work while retaining responsibility for architecture, tests, and correctness.
- Shipped an auditable document workflow with file-type validation, in-browser PDF/image/DOCX previews, filtering, granular sharing permissions, and append-only sharing events; owned API, React UI, migrations, and Playwright e2e coverage.
- Owned Stripe subscription billing end-to-end: preserved raw request bodies, verified HMAC signatures, mirrored payment state into PostgreSQL idempotently, and built transactional admin tooling around webhook-driven state changes.
- Wired server events through Ably pub/sub and React Query invalidation; added RBAC, subscription-tier feature gating, safe deletion with referential-integrity checks, and duplicate/conflict safeguards.

Reggeee (Elroy)

Software Engineer — Greenfield Product

Remote

June 2026 – Present

- Designed a separate PostgreSQL database and API behavior from scratch for a greenfield family-activity marketplace, modeling identity, multi-adult families, children, businesses, offerings, and registrations; documented the boundary between database constraints and API business rules.
- Built the live parent-auth and family vertical across a Slim 4/PHP API and React 19/TypeScript/Vite app, including Argon2id/HttpOnly cookie sessions, Redis-backed state, invitations, onboarding, and Playwright e2e against the live API.

Unlimited Robotics

Engineering Intern

Tel Aviv, IL

May 2022 – August 2022

- Assembled and tested electrical and mechanical subsystems in a multipurpose humanoid robot.
- Produced SolidWorks models of lift-arm assembly and maintained inventory of 1000+ vendor and additively-manufactured parts.

TECHNICAL PROJECTS

Parking — Reliable Python Data Pipeline & Interactive Map (*Python, Pandas, GeoPandas, Shapely, React, TypeScript, MapLibre, GeoJSON, CI*)

- Built a solo Python pipeline parsing 76,849 rows of ambiguous Toronto bylaw text into 21,433 geocoded curb segments (99.2% street-resolve rate), retaining provenance, stage/reason failure codes, and explicit unresolved cases for systematic triage.
- Automated source refresh and validation with CKAN fingerprints, retries, partial-file replacement, required-column/record-count checks, structured progress output, and regression fixtures; shipped a tested React + MapLibre interface with typed data contracts.

HoverBot — Vision-Based Navigation System (*Python, OpenCV, NumPy, threading*)

- Authored a multithreaded computer-vision pipeline sustaining 30 fps with ≤ 100 ms image-to-actuation latency and ± 3 cm mean arrival error across 30 waypoints.

TECHNICAL SKILLS

Python & AI Workflow: Python, Pandas, LLM-assisted development, prompt engineering, Cursor, Bash automation

Languages & Data: TypeScript, JavaScript, SQL, PostgreSQL, PHP, ETL pipelines, domain modeling

Product & Integrations: React, RESTful APIs, Webhooks, Stripe, Ably, Redis, data validation, audit trails, RBAC

Testing & Reliability: pytest, PHPUnit, Vitest, Playwright (e2e), GitHub Actions, idempotency, failure triage

Infrastructure & Other: Docker, Git, GitHub, Oracle Cloud, SSH, Swift, SwiftUI, Java, C/C++, HTML/CSS

Interests: Maths, Making Music, Philosophy, Visual Art, Literature, Writing