

Jose Jimenez Mota

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Languages: Spanish (Native), English (Fluent), French (Fluent)

SUMMARY OF QUALIFICATIONS

Trilingual Full-Stack Software Developer with a background in database engineering and IT infrastructure. Sole technical owner of the software and systems function at a non-profit, delivering a production member portal (Next.js, PostgreSQL) and self-hosted infrastructure end to end. Experienced across the full software lifecycle: REST API design, relational data modeling, authentication, and secure backend systems, backed by disciplined documentation (ADRs, runbooks, post-mortems) and QA. Security-aware, comfortable in Agile teams, and quick to adopt emerging tools including generative AI.

PROFESSIONAL EXPERIENCE

Software Developer

Réseau 4Korners

Feb 2026 – Present

Deux-Montagnes / Montreal, QC (Hybrid)

- **Member portal:** designed and shipped a bilingual member portal for **1,100+** members (Next.js 15, TypeScript, PostgreSQL, Drizzle ORM, Auth.js v5) with role-based access control, audit logging, and Stripe/Zeffy payments.
- **Data architecture:** designed a two-database model: self-hosted PostgreSQL for auth/payments/audit running alongside Airtable (still the CRM source of truth), kept in idempotent sync (upserts, soft deletes, signed webhooks) with a read-cache so load scales with activities, not users. Postgres is added incrementally via a Strangler-Fig path, at zero disruption to staff. Loi 25 compliant.
- **Data migration:** migrated the registration-linking workflow off Make.com onto native Airtable scripting (a Status-driven state machine with idempotent dedup and error surfacing) across **3,600+** people and **4,200+** registrations (**14,000+** annual events), via a phased cutover with parallel run and rollback, eliminating a duplicate-record bug class.
- **Backend problem-solving:** enforced data-layer invariants in PostgreSQL (a partial unique index guaranteeing one primary person per account) and rebuilt activity discovery around how members browse (program-subtopic tree over multi-value tags), eliminating data-inconsistency bugs.
- **Internal tools (Python/FastAPI):** built self-hosted apps on a Dockerized VPS: a press-release publication pipeline (chroot-jailed SFTP + Apache + Power Automate, 60-day auto-expiring links), and a Zoom reservation system with recurring-date projection and booking-collision detection.
- **Infrastructure & ownership:** sole technical owner of the organization's software and systems; self-hosted Vaultwarden (Docker) with off-site backups and tested disaster recovery; authored **14+** ADRs, runbooks, and post-mortems.

Software Developer Intern

DevFortress

Oct 2025 – Jan 2026

Montreal, QC (Remote)

- **AI Backend & MCP:** Engineered local AI agents using the Model Context Protocol (MCP) and Google AI platforms; built a custom ODCAF MCP server (JSON-RPC/SSE) for deterministic, hallucination-free responses.
- **Browser Extension:** Built a privacy-focused Chrome extension (React, Vite) with a progressive retrieval algorithm that improved search recall while reducing Gemini API token consumption by **~40%**.
- **AI product MVPs:** Built a Python web-based audio workstation (real-time multi-track mixing, granular segmentation, deep editing) and a multi-agent conversational system managing multiple AI personas via natural-language triggers.
- **Web Performance:** Led the performance overhaul of 2+ corporate sites to Google PageSpeed **95+** through code-splitting, asset compression, and DOM optimization.

Database Administrator Intern

Jymaci Construction

2021 – 2023

Hidalgo, Mexico

- Administered relational databases with **5,000+** records, ensuring integrity and security.
- Implemented indexing and query optimization, reducing execution times by **30%**.
- Executed disaster recovery and automated backups, maintaining **99.9%** data availability.

EDUCATION

Attestation of Collegial Studies (AEC) – Programming and Data Analysis

LaSalle College

2024 – 2026

Montreal, Canada

Computer Systems Engineering (2 years completed)

Tecnológico Nacional de México

2021 – 2023

Hidalgo, Mexico

Cisco Certified Support Technician (CCST) Preparation

Cisco Networking Essentials – NetAcad

2024

Montreal, Canada

Networking Academy – IT Essentials

Cisco IT Essentials – NetAcad

2024

Montreal, Canada

SKILLS & KNOWLEDGE

- **Languages:** TypeScript, JavaScript, Python, Java, C#, SQL, HTML/CSS
- **Frameworks & Libraries:** Next.js, React, Node.js, Spring Boot, FastAPI, Angular, Auth.js, Drizzle ORM
- **Databases:** PostgreSQL, SQLite, SQL, Airtable
- **Cloud & DevOps:** Docker, Linux, VPS administration, Apache, Git, CI/CD, rclone, Microsoft 365 / Entra ID
- **Practices:** REST/RPC API design, relational data modeling, authentication & authorization, data migration & sync, Agile, technical documentation (ADRs, runbooks), QA, Loi 25 / data protection