# Uday Parmar

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## Education

**McGill University** — Montreal, QC
*B.Sc. Computer Science (Artificial Intelligence)* — *Expected May 2027*

## Experience

**AI and Data Developer (Part-time)** — Sep 2026 – Present
*OR Royalties Inc. (TSX/NYSE: OR)* — *Montreal, QC*

- **Retained after the internship** to build a versioned database of royalty, stream and offtake terms extracted from NI 43-101 technical reports, with a human validation state on every extracted record and competitor scoring for Corporate Development
- Maintain and extend the production platform and pipelines built during the internship, which Corporate Development and Finance rely on daily

**AI and Data Developer Intern** — May 2026 – Aug 2026
*OR Royalties Inc.* — *Montreal, QC*

- Joined as the company's first in-house developer and took its AI and data systems from an empty repository to production, working directly with Corporate Development and Finance to scope, review and roll out each one
- Built the firm's first production **market-intelligence platform** (Python, Next.js, Azure Container Apps), ingesting mining filings and news from **6 live sources** daily and ranking signals by materiality; now in daily use by both teams
- The platform's ranked feed flagged a **US$65M royalty buyback** and related M&A signal that the existing manual review had not surfaced; confirmed and acted on by Corporate Development
- Replaced a daily manual PDF-to-print review with a **zero-touch overnight pipeline**, removing the step from the team's workflow entirely
- Built an LLM pipeline producing first-pass quarterly **IAS 36 impairment analysis** for Finance review; evaluated LSEG and FactSet to inform the firm's data-sourcing strategy

## Selected Projects

**TaxMapCA — Sales Tax Decision Engine** | *TypeScript, Next.js* | Live — 2025 – Present

- Deterministic rules engine for **GST/HST/PST/QST** built on versioned CRA and Revenu Québec data with effective dates, so every determination is reproducible for a given date and jurisdiction
- Guided workflow returns a determination in under 60 seconds with source-linked citations and plain-English explanations

**ARMM — Adaptive Regime Market Maker** | *Python, NumPy* | Project — Jan 2026

- Market-making system built solo in **24 hours**; placed **2nd in the National Bank Challenge**
- Regime detection (band / drift / event) from rolling quantiles, EMA persistence and volatility signals; inventory treated as a control variable with slew-rate-limited, risk-aware quoting

**VectralQ — AI Enterprise Search SaaS (Founder)** | *TypeScript, React, RAG* | Code — Aug – Dec 2025

- Hybrid retrieval combining **BM25 and embeddings** for cited answers; developer API and embeddable widget with two-line integration
- Selected for **McGill TechAccel** within one month; ran pilots and shut the product down on weak demand signals

**RememberThroughMe — AI Memory Assistant** | *Python, OpenCV, Swift* | Code — Feb 2025

- Real-time face recognition with encrypted, identity-linked memory retrieval and a voice interface; **Best Use of AI** at ConUHacks IX (800+ participants)

## Technical Skills

**Languages**: Python, TypeScript, JavaScript, SQL, Java, Swift
**AI / Retrieval**: LLM pipelines, RAG, embeddings, BM25, OCR, human-in-the-loop validation, NumPy, pandas
**Web / APIs**: React, Next.js, FastAPI, Express, REST API design
**Data / Infrastructure**: PostgreSQL, Supabase, Azure Container Apps, Docker, ETL and scheduled batch pipelines, versioned datasets