

# SAM PICH

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## EDUCATION

### University of Ottawa

*Honours BSc in Computer Science, Minor in Psychology*

Expected Graduation: **May 2027**

Ottawa, ON

*Sep 2022 – Present*

## EXPERIENCE

### Canada Revenue Agency

*Artificial Intelligence Developer Intern*

Ottawa, ON

*May 2026 – Aug 2026*

- Conduct applied AI R&D supporting usage and token-cost analytics, prompt analysis, model-hosting evaluation, and governance-aware development practices for internal public-sector AI tooling.

### Canadian Intellectual Property Office

*Junior Analyst*

Ottawa, ON

*Jan 2025 – Dec 2025*

- Automated weekly executive KPI reporting from Microsoft Forms into Power Automate, Excel, and Python/Quarto workflows, reducing manual compilation from **5+ hours/week** to minutes of review.
- Built registration analytics by office, country, attendance, and trend for the largest edition of Canada's Annual IP Data & Research Conference, serving **400+ attendees** representing IP offices across **40+ countries**.

## PROJECTS

### RITC Trading Competition Platform | *Python, NumPy, SciPy, SQLite, pytest, REST*

Dec 2025 – Feb 2026

- Built the solo volatility-case platform for the **Rotman International Trading Competition**, ingesting live market and news inputs, pricing **20 options contracts** with Black-Scholes, detecting theoretical-value mispricings, and placing **9th of 38 global teams**.
- Engineered modular trading engine for REST ingestion, news parsing, option-state tracking, Greeks/pricing, LP portfolio optimization, order execution, delta hedging, and risk-limit checks.
- Logged each tick with per-tick SQLite/CSV audit trails enabling post-session review; contributed to **15th overall** in a global university trading competition spanning **36 universities**.

### AI Home Server, Memory & Messaging Platform | *Pi 5, ARM64, Docker, Qdrant*

2024 – Present

- Migrated platform from AWS EC2 to a **4 GB Raspberry Pi 5**; operate Linux, Docker, PostgreSQL, and Caddy services, Matrix/Discord gateways, and **5,000+ routed messages**.
- Compiled **Qdrant 1.18.2** natively from Rust source to resolve a jemalloc incompatibility with the Pi's **16 KB ARM64 memory pages**; deployed as a supervised local Mem0/Qdrant semantic-memory backend.

## QUANT & FINANCE LEADERSHIP

### CFA Institute Research Challenge

*Team Captain | Lightspeed Commerce (TSX: LSPD)*

Ottawa, ON

*Oct 2025 – Jan 2026*

- Led equity research on Lightspeed Commerce; issued a contrarian **SELL** with a **\$12 price target** versus street consensus, supported by valuation, Form 40-F analysis, and primary merchant research.
- Identified a **potential \$600M goodwill-impairment risk** through Form 40-F analysis and primary SMB research, interviewing operators to test merchant sentiment against management narratives.

### Telfer Asset Management League (TAML)

*Alternatives Analyst | Multi-Asset Portfolio Management*

Ottawa, ON

*Mar 2026 – Present*

- Selected for analyst cohort managing a simulated **60/35/5** endowment portfolio with a **6% real return** target; source alternatives via Bloomberg and Morningstar and present Buy/Hold/Sell recommendations using Sharpe, Sortino, and drawdown analysis.

### uOttawa Trading Club

*President; Bloomberg & RITC Team Lead*

Ottawa, ON

*2026 – Present*

- Lead algorithmic-trading workshops, team tryouts, and Bloomberg/RITC competition preparation; founding uOttawa's Bloomberg Global Trading Challenge team with the finance lab supervisor.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, Java, Kotlin, SQL

**Backend, Data & Infrastructure:** PostgreSQL, SQLite, Docker, AWS EC2, Linux, Git, Bash, Node.js, Caddy, systemd, Qdrant, REST APIs, pytest, Pandas, Quarto

**Web & Frontend:** React, Next.js, HTML, CSS, Tailwind, HTTP

**Quant & Financial Analysis:** NumPy, SciPy, Black-Scholes, options theory, Greeks, portfolio optimization, Bloomberg, Capital IQ, DCF

## INTERESTS & ACTIVITIES

**Competitive Gaming:** League of Legends, **top 0.02% NA** (2,020 of 1.5M+); 1st place, NECC Group B.