Akshat Chopra

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EDUCATION

University of Waterloo — Sep 2025 – Apr 2030 (Expected)

Bachelor of Mathematics, Financial Analysis & Risk Management (FARM)

- **Scholarships:** University of Waterloo President's Scholarship, Deborah McDonald Scholarship.
- **Extracurriculars:** VP Events (UWaterloo Debate Society), B&G Mock Trial Champion.
- **Certifications:** Bloomberg Market Concepts (BMC).

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, Scikit-learn), C, SQL, JavaScript, HTML/CSS

Frameworks & Tools: React, Firebase, Git/GitHub, Excel (VBA), REST APIs

Concepts: LLMs (RAG), ETL Pipelines, Regression Modeling, Data Harmonization

PROFESSIONAL EXPERIENCE

Quantitative Research Fellow — Oct 2025 – Present

Sephira Institute | London, UK (Remote)

- Designed a RAG system using OpenAI APIs to enable semantic search across Sephira datasets
- Engineered ETL pipelines to ingest multi-modal data (VCIOM, Google Trends)
- Collaborated with Cambridge University faculty to harmonize datasets for international strategy reports.

Camp Counselor — Jun 2025 – Sep 2025

City of Mississauga | Mississauga, ON

- Facilitated daily programming for **20+ children**, ensuring adherence to safety protocols and city regulations.
- Coordinated with counselors to organize community events, demonstrating reliability and teamwork.

Data Lead & Assistant Teacher — Sep 2022 – Sep 2024

Kumon Canada | Mississauga, ON

- Tracked student progress and generated performance reports using K-SIS for management review.
- Trained coworkers on new database procedures and system updates, improving operational consistency.
- Mentored students aged 3–17 in math and reading comprehension while managing concurrent sessions.

PROJECTS

Fraser Suite of Products (Pay, Votes, & SAP) — Jan 2025 – Jul 2025

React, Firebase, Javascript | Scalable Digital Ecosystem

- Developed a full-stack ecosystem (FraserPay/FraserVotes/Application Portal) for **1,700+ users**, increasing voter turnout by **43%**.
- Shipped a digital wallet used by **1,000+ students** across 10 events; processed **$14,000+** in funds.
- Scaling platform adoption to **3 additional PDSB schools**; currently under review for board-wide implementation..

Phiner (Financial Data Engine) — Sep 2025 – Jan 2026

Python, Pandas, NumPy | Top 10% Y Combinator Applicant

- Co-founded a fintech startup; selected as a **Top 10%** Y Combinator applicant and secured multiple LOIs.
- Built a data engine to ingest, clean, and normalize financial time-series data for downstream models.
- Automated outlier detection and timestamp alignment to improve data integrity for proprietary models.

LEADERSHIP & AWARDS

Squadron Warrant Officer — Mar 2023 – Jul 2025

Royal Canadian Air Cadets (Top 1% of 450+ unit)

- Led logistics for a 3-day FTX for **200+ cadets** at CFB Borden; supervised training and supply distribution.
- Implemented new attendance tracking, improving flight attendance by **15%+** in one training year.
- **Awards:** Captain Chris Luxemburger Award of Excellence (2025), Long Service Award (2023).

Vice President — May 2023 – Jul 2025

John Fraser Student Council (SAC)

- Led 36 members to deliver school-wide events; managed **$25,000** budget and raised **$12,000** for charity.
- **Awards:** Peel Award of Excellence (2024), Ontario Principal's Council Award (2025).