

Kazi Sifat

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SUMMARY

Bringing 5 years of multi-faceted training bridging data analytics and research. Driven by curiosity, campaigned in the Student Union elections, championed drug recovery, published books, brought teams together to case competitions and competed in rowing. Exceptional communication skills sharpened through 5-language expertise, client-facing sales and thesis presentations. Currently Pursuing FMVA® certification (CFI) to expand financial analysis expertise.

EDUCATION

Bachelor of Science in Physics (Honors Thesis) **Sep. 2021 – May. 2026**
University of Calgary **Calgary, Alberta**

- Relevant courses: Accounting Principles, Honours Thesis, Laboratory Physics I, II & III, Computational Physics I, II & III, Statistical Mechanics I & II, Computational STAT modelling, Data Structures and Algorithms, Intro to Business Venturing.

PROFESSIONAL EXPERIENCE

Equity Research Extern **May 2026 – Aug 2026**
Yinan Zhao Value Investment, Extern **Remote**

- Evaluated capital positions and optimized financial strategies for an energy giant by analyzing 10-K, 10-Q, and P&L statements to project the impact of \$18.8M in net investment tax credits and an acquisition of \$325M.
- Automated segment-level DCF models via agentic AI (Antigravity), predicting ROI and setting 1-year price targets (at 6% IRR) across business lines.
- Conducted company, market, and industry research to author and present an independent Long thesis to the senior analyst, backed by bull/base/bear scenario and comparative analysis.

Computational Physics Research Assistant **May. 2025 – Aug. 2025**
University of Calgary (PURE award), IQST **Calgary, Alberta**

- Applied graph theoretic concepts in Python to model interactive relationships in a tight-binding atomic chain to optimize chemical sensing.
- Improved simulation bottlenecks by implementing algorithmic change resulting in 1000% runtime speed-up on a 10 times larger model.

Order Fulfillment and Customer Experience **Jun. 2022 – Present**
The Home Depot Canada Inc. **Calgary, Alberta**

- Demonstrated outstanding communication skills and sensitivity to diverse customers while solving complex account problems and deescalating aggression both in person and over calls, resulting in a consistent 90% and above customer satisfaction rating.
- Collaborated across departments and asked for help in a fast-paced environment, coordinating with cross-functional retail teams to manage inventory operations supporting daily sales of up to \$206,000 in a high paced environment using Salesforce.

PROJECTS

Solving Black-Scholes Model to Simulate European Options | *Python, Statistical Modeling* **Jan. 2026 – Apr. 2026**

- Discretized the Black-Scholes PDE with 4th-order-accurate finite differences in price and integrated in time using a self-implemented adaptive RK45 (Cash-Karp) solver.
- Achieved mean relative error of 0.01% (max 0.17%, $R^2 > 0.999$) against the closed-form Black-Scholes formula across a 100-point price grid.

Northern Lights Forecast Model | *NumPy, Matplotlib, TensorFlow, Neural Networks* **Jan. 2024 – Apr. 2024**

- Processed 33,000+ unstructured data points, identifying an 11-year sunspot cycle using Python (NumPy/Matplotlib).
- Extrapolated non-linear relationships between sunspot activity and geomagnetic indices, cutting pattern detection RMSE by 35% using polynomial regression to forecast auroral activity with high predictive precision.

Enterprise Database Refinement | *SQL, Data cleaning,* **Sep. 2023 – Dec. 2023**

- Extracted and manipulated an unorganized dataset containing a catalog of 10,000+ consumer products using SQL environment.
- Engineered algorithm enhancements across enterprise databases systematically reducing catalog query execution times from approximately 5.0 seconds to 0.01 seconds.
- Revised the back-end search algorithm achieving a 95% precision in expected sort-by-relevance query results.

SUMMARY OF SKILLS

- AI & Analytics:** Generative AI (Anti-gravity, Perplexity), TensorFlow, Scikit-Learn, Neural Networks, Predictive Modeling, Hypothesis Testing.
- Data Engineering & Visualization:** Python (NumPy, SciPy, Matplotlib), SQL, R, Tableau, SAP, Data Cleaning.
- Consulting & Strategy:** Salesforce, Executive Storytelling, PowerPoint, MS Excel, Consulting, Proof of Concept (PoC) Design.

PROFESSIONAL DEVELOPMENT

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| • PURE Research Award (2025) | • FMVA® (in progress) | • Hunter Hub Solutions Lab Honouree (2023) |
| • Recovery Champion Award (2024) | • President's Admission Award (2021) | • Dean's Honour list (2021, 2026) |