

Calvin Lee

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SKILLS

Programming: Python, SQL, Snowflake, Java, Javascript, HTML, CSS, Node, React

WORK EXPERIENCE

Software Developer Intern

Toronto, ON, Canada

Thri5

Jul 2025 – Aug 2025

- Co-developed production SQL pipelines for an early-stage **AI-powered retail operating system**, transforming fragmented SAP/JSON data from pilot retailers into validated **Snowflake** tables powering real-time anomaly detection and insights.
- Built **multi-stage CTE queries** performing large joins, normalization, and dimensional modelling across **23M+ rows per table and 50+ datasets**, resolving nulls, datatype drift, and JSON edge cases.
- Developed three **anomaly-detection frameworks** using window functions (**PARTITION_BY**), time-series and aggregate analytics (**LAG**, **ROW_NUMBER**, **COUNT**, **DATEDIFF**, **DATEADD**, **TIMESTAMPDIFF**) to detect:
 - * Duplicate case-scan IDs between distribution centres and stores → cycle-count triggers.
 - * Pallets with expiring or short-dated items → shelf-life alerts.
 - * Unrecorded inventory reductions → potential shrink/theft.
- Uncovered a critical **data-integrity misalign** identified from store, and shipment tables, prompting schema corrections.
- Reverse-engineered inconsistent time-series pipelines across multi-million-row SAP datasets, resolving transformation drift and temporal gaps to construct durable Snowflake views unifying historical and live inventory data.

Team Member, FIRST Robotics Team 1360

Oakville, ON, Canada

CAD Designer, Programmer, Communications

Sep 2021 – Jun 2025

- CAD Designer: Modeled **15+** robot Intake, Indexer, Shooter designs and assemblies in SOLIDWORKS.
- Software Programmer: Gained foundational knowledge in robotic software systems. Analyzed **PID control theory** and **virtual simulations** for precise robotic accuracy.

First Violinist (Temporary Associate Concertmaster)

Oakville, ON, Canada

Oakville Symphony

Sept 2023 – May 2025

- Performed in professional concert series, serving **2 times as Associate Concertmaster**, contributing to section leadership and cohesive ensemble performance.
- Collaborated with **TSO concertmaster Jonathan Crow** and professional musicians across **10** concerts, performing over **90 major works** for audiences exceeding **8,000**, while supporting coordination and unity across the ensemble.
- Through **4 rehearsal turnovers**, supported team cohesion and performance quality under tight deadlines with composure and initiative.

EDUCATION

University of Waterloo

Waterloo, ON, Canada

BCS, Computer Science, Faculty of Mathematics

Expected Graduation Apr 2030

- Foundational courses in Functional Programming, Algorithm Design and Data Abstraction

Shad Canada Alumnus

Montreal, QC, Canada

McGill University

Jun 2023 – Jul 2023

PROJECTS AND INDEPENDENT LEARNING

The Complete Full-Stack Web Development Bootcamp (Udemy)

- Full-Stack Web Development: HTML, CSS, Javascript, Node, React

Master Modern SQL with Snowflake (Udemy)

- SQL Data Definition, Manipulation and Queries in the Snowflake Data Platform

CEMC Open Courseware, Centre for Education in Mathematics and Computing

- Python from Scratch || Web Page Basics - HTML and CSS || Web Programming in JavaScript

AWARDS AND ACHIEVEMENTS

Music Certifications/Achievements

- **TOP 6 in Canada**, CMC National Finalist, Violin - 2019
- **TOP 13 in Canada**, CMC National Finalist, Violin - 2022
- **1st Place**, OMFA Regional Music Festival Violin Competitions, **10x Awards** - 2015-24

CEMC Contest Awards

- **TOP 5.0%**, Fermat Math Contest, Distinction - 2023
- **TOP 5.3%**, Cayley Math Contest, Distinction - 2022