

# Calvin Lee

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## SKILLS

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

## WORK EXPERIENCE

<b>Software Developer Intern</b> <b>Thri5</b>	Toronto, ON, Canada Jul 2025 – Aug 2025
– Co-developed production SQL pipelines for an early-stage <b>AI-powered retail operating system</b> , transforming fragmented SAP/JSON data from pilot retailers into validated <b>Snowflake</b> tables powering real-time anomaly detection and insights.	
– Built <b>multi-stage CTE queries</b> performing large joins, normalization, and dimensional modelling across <b>23M+ rows per table and 50+ datasets</b> , resolving nulls, datatype drift, and JSON edge cases.	
– Developed three <b>anomaly-detection frameworks</b> using window functions ( <b>PARTITION_BY</b> ), time-series and aggregate analytics ( <b>LAG</b> , <b>ROW_NUMBER</b> , <b>COUNT</b> , <b>DATEDIFF</b> , <b>DATEADD</b> , <b>TIMESTAMPDIFF</b> ) 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 <b>data-integrity misalign</b> 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.	
<b>Team Member, FIRST Robotics Team 1360</b> <b>CAD Designer, Programmer, Communications</b>	Oakville, ON, Canada Sep 2021 – Jun 2025
– CAD Designer: Modeled <b>15+</b> robot Intake, Indexer, Shooter designs and assemblies in SOLIDWORKS.	
– Software Programmer: Gained foundational knowledge in robotic software systems. Analyzed <b>PID control theory</b> and <b>virtual simulations</b> for precise robotic accuracy.	
<b>First Violinist (Temporary Associate Concertmaster)</b> <b>Oakville Symphony</b>	Oakville, ON, Canada Sept 2023 – May 2025
– Performed in professional concert series, serving <b>2 times as Associate Concertmaster</b> , contributing to section leadership and cohesive ensemble performance.	
– Collaborated with <b>TSO concertmaster Jonathan Crow</b> and professional musicians across <b>10</b> concerts, performing over <b>90 major works for audiences exceeding 8,000</b> , while supporting coordination and unity across the ensemble.	
– Through <b>4 rehearsal turnovers</b> , supported team cohesion and performance quality under tight deadlines with composure and initiative.	

## EDUCATION

<b>University of Waterloo</b> <b>BCS, Computer Science, Faculty of Mathematics</b>	Waterloo, ON, Canada Expected Graduation Apr 2030
– Foundational courses in Functional Programming, Algorithm Design and Data Abstraction	
<b>Shad Canada Alumnus</b> <b>McGill University</b>	Montreal, QC, Canada Jun 2023 – Jul 2023

## PROJECTS AND INDEPENDENT LEARNING

<b>The Complete Full-Stack Web Development Bootcamp (Udemy)</b>
– Full-Stack Web Development: HTML, CSS, Javascript, Node, React
<b>Master Modern SQL with Snowflake (Udemy)</b>
– SQL Data Definition, Manipulation and Queries in the Snowflake Data Platform
<b>CEMC Open Courseware, Centre for Education in Mathematics and Computing</b>
– Python from Scratch    Web Page Basics - HTML and CSS    Web Programming in JavaScript

## AWARDS AND ACHIEVEMENTS

<b>Music Certifications/Achievements</b>
– <b>TOP 6 in Canada</b> , CMC National Finalist, Violin - 2019
– <b>TOP 13 in Canada</b> , CMC National Finalist, Violin - 2022
– <b>1st Place</b> , OMFA Regional Music Festival Violin Competitions, <b>10x Awards</b> - 2015-24
<b>CEMC Contest Awards</b>
– <b>TOP 5.0%</b> , Fermat Math Contest, Distinction - 2023
– <b>TOP 5.3%</b> , Cayley Math Contest, Distinction - 2022