

Alex Lee

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science, Minor in Mathematics

Relevant coursework: Foundations of Computer Science I/II, Calculus with Proofs, Linear Algebra I

Activities and Societies: University of Toronto Machine Intelligence Team

cGPA: 3.97/4.00

Sep 2022 - Jun 2026

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS

Frameworks and Tools: Flask, SQLAlchemy, Java Swing

PROJECTS

Calculus Derivative Calculator | *Python* ↗

- Capable of **differentiation with complete steps** and algebraic simplification
- Built **completely from scratch** without using any math-related libraries
- Implemented using **binary expression trees**, and utilized the **shunting yard algorithm** for processing mathematical input and **self-designed recursive algorithms** for differentiation and algebraic manipulation
- Created a **Flask** back-end server and used **PythonAnywhere** for online deployment

Jang-gi (Korean Chess) | *Java* ↗

- An online version of Jang-gi, a Korean chess game
- Implemented game logic leveraging the principles of **object-oriented programming**
- Used **Java Swing** to implement the graphical user interface of the game

Atlas News | *Python* ↗

- A global news website with a discussion forum
- Used **Flask** for the back-end and **SQLAlchemy** to manage a database

KnowYourBias | *Python* ↗

- A web app that detects the political bias of the news article the user submits, and presents other articles on the same topic with different viewpoints
- Used APIs from NewsCatcher and **Amazon AWS** for article search and keyword extraction

ACTIVITIES

Inova Computer Association

Executive Director

Vancouver, BC

Sep 2021 - Jun 2022

- **Led a team** of six high school students organizing online events related to computer science
- Searched for guest speakers and promoted events to high school students in Greater Vancouver, receiving 70+ sign-ups in total
- Received a **government-funded grant** to fund the events
- Successfully hosted two events, a university student panel and a software development webinar, featuring guest speakers from the industry

Point Grey Computer Science Club

Club President

Vancouver, BC

Sep 2021 - Jun 2022

- Taught club members programming in Python and Java, as well as 3D modeling with Blender in weekly meetings

AWARDS

BC Achievement Scholarship | *Issued by the British Columbia Ministry of Education*

District/Authority Scholarship | *Issued by the British Columbia Ministry of Education*

Point Grey Academic Scholarship | *Issued by Point Grey Secondary School*