

Alex Lee

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EDUCATION

University of Toronto

cGPA: 3.97/4.00

Honours Bachelor of Science in Computer Science

Anticipated Graduation: Apr 2026

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

Societies: University of Toronto Machine Intelligence Team

SKILLS

Languages: Python (Proficient), Java (Intermediate), JavaScript (Beginner), HTML/CSS (Beginner)

Frameworks and Tools: Flask, SQLAlchemy, Java Swing

PROJECTS

Calculus Derivative Calculator | Python

- Capable of differentiation and algebraic simplification
- Built from scratch **without using any math-related libraries**
- Implemented using **binary expression trees** and the **Shunting yard algorithm**

Jang-gi (Korean Chess) | Java

- An online version of Jang-gi, a Korean chess game, completely from scratch
- Implemented pieces and game logic using the principles of **object-oriented programming**
- Used **Java Swing** to implement GUI of the game

Atlas News | Python

- A global news website with a discussion forum
- Used **Flask** for server deployment and **SQLAlchemy** to create 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

Executive Director

Vancouver, BC

Inova Computer Association

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 valuing \$250** to fund the events
- Successfully hosted two events, a university student panel and a software development webinar, featuring guest speakers from the industry

Club President

Vancouver, BC

Point Grey Computer Science Club

Sep 2021 – Jun 2022

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

AWARDS

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

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

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