Alex Lee

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EDUCATION

University of Toronto — **cGPA: 3.97/4.00**
HBSc in Computer Science, Minor in Mathematics, with co-op status — *Sep 2022 - Jun 2026*

Relevant coursework: Software Design; Intro to the Theory of Computation; Advanced Calculus; Linear Algebra I; Probability, Statistics & Data Analysis I

Activities and Societies: U of T Machine Intelligence Student Team

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, R
Frameworks and Tools: Flask, SQLAlchemy, Git, Java Swing

PROJECTS

Calculus Derivative Calculator | *Python, HTML, CSS, JavaScript* ⌕ ⌕
- Capable of **differentiation with complete steps** and algebraic simplification with **100% accuracy**
- Built **completely from scratch** without using any math-related libraries
- Implemented using binary expression trees and **self-designed recursive algorithms**
- Uses **Flask** for the back-end and 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 GUI of the game

KnowYourBias | *Python* ⌕ ⌕
- An **AI** 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

Atlas News | *Python* ⌕ ⌕
- A global news website with a discussion forum
- Uses **Flask** for the back-end and **SQLAlchemy** to manage a database

ACTIVITIES

Inova Computer Association — Vancouver, BC
Executive Director — *Sep 2021 – Jun 2022*
- Led a team of six high school students organizing events related to computer science, targeting Vancouver high school students
- Received **70+** sign-ups for the events that featured 5 guest speakers in total
- Received a **federal government-funded grant** to fund the events
- Successfully hosted two events: a university student panel and a software development industry webinar

Point Grey Computer Science Club — Vancouver, BC
Club President — *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*