




Alex Lee

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EDUCATION

- **University of Toronto** **cGPA: 3.97/4.00**
Bachelor of Science in Computer Science, Minor in Mathematics *Sep 2022 - Jun 2026*
 - **Courses:** Software Design, Software Tools & Systems Programming, Data Structures & Analysis, Computer Organization, Theory of Computation

SKILLS

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









EXPERIENCE

- **Microsoft** Redmond, WA
Software Engineering & Product Management (Explorer) Intern *May 2024 - Present*
 - Designed and developed a customer support **AI** chatbot for a service keeping track of **100 billion+** certificates and secrets
 - Leveraged **Azure OpenAI** resources to create a **GPT-3.5**-powered solution
 - Implemented **Retrieval-Augmented Generation (RAG)** to facilitate dynamic, up-to-date data retrieval using **embedding models** and **vector search**

ACTIVITIES

- **U of T Machine Intelligence Student Team** Toronto, ON
Events Director *Sep 2023 - Apr 2024*
 - Organized an internal social event for a club with **170+** members
- **Inova Computer Association** Vancouver, BC
Executive Director *Sep 2021 - Jun 2022*
 - Led a team of six students organizing webinars about careers in technology, targeting local students
 - Received **70+** sign-ups for federal government-funded events featuring 5 guest speakers in total

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