# Pushpinder Sekhon

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## Education

**University of Western Ontario**                                    **2022 − 2026**
*Bachelor of Engineering Science in Software Engineering - Deans Honor List 2022-2024*          *London, Ontario*

## Relevant Coursework - 2022-2024

- Data Structures and Algorithms
- Scripting Languages
- Programming Fundamentals For Engineers
- Software Construction
- Software Design
- Digital Logic Systems
- Foundations of Engineering Practice
- Business for Engineers

## Experience

**Quantum Computing Club**                                    **September 2023 - Present**
*Director of Research*                                                *London, Ontario*

- Produced four documentary style videos on various quantum computing topics, including topics on qubits, the types of quantum computers, and modern innovations.
- Acted as researcher for projects in Software and Consulting teams.

**Western Algorithmic Trading Club**                           **September 2023 − Present**
*Alternative Data Team - Software Developer*                          *London, Ontario*

- Extracted 96,000 data files from IMF database using IMF api, and used pandas to derive insights related to sovereign debt defaults, using this data.
- Presented findings in live presentation to over fifty club members, and answered questions in following question period.

**QuantumLumen Strategies**                                    **July 2023 − Present**
*Founder/Software Developer*                                          *Brampton, Ontario*

- Collaborated with a team to develop simple applications tailored to small business clients' needs, enhancing user experience and engagement.
- Gained hands-on experience with front-end technologies such as HTML, CSS, and JavaScript, improving proficiency in creating visually appealing and responsive designs. Also gaining knowledge of backend using the node.js platform.

## Projects

**Adventure Video game** | *Unity, C#*                                 **January 2024**

- Produced full fledged adventure video game, set in a medieval setting, including 12 distinct enemies, with various weapons and armour.
- Developed 24 C# scripts for the functionality of the game, including a damage system, raycast detection, cameras movement, and enemy ai.
- Learned unity tools including navmeshes, animator, and version control.
- https://github.com/pushpinderSekhon10/2Serious.git

**PDF Application** | *Python, PyPDF*                                   **May 2024**

- Developed python based pdf application
- Features include displaying/searching text, merging/splitting pdfs, adding images, encryption/decryption, bookmarks, and annotations.
- https://github.com/pushpinderSekhon10/pdfViewer.git

**Quantum Gate and Semiconductor property Calculator** | *Java, JavaFx*          **May 2024**

- Developed Gui based application to determine the probabilities of quantum circuits, and calculate the properties of different semiconductors.
- The application can calculate the probability of the outputs of a 3x2 quantum circuit, with 7 different quantum gates and 12 different properties of a semiconductor
- https://github.com/pushpinderSekhon10/ElectricalEngineeringCalculator.git

## Technical Skills

**Languages** : Java, Python, HTML, CSS, JavaScript, C#, MATLAB
**Developer Tools**: VS Code, AWS, IntelliJ, PyCharm, Anaconda, Unity, Jupyter Notebooks
**Technologies/Frameworks**: Jenkins, GitHub, numpy, Matplotlib, Keras, PyPdf, JavaFx

## Extracurricular

**Intramural Hockey**                                          **September 2023 − Present**