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# Vincent Wan

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[GitHub](#)

[Linkedin](#)

[My Website](#)

## Relevant Skills

- **Languages:** C++, C, C#, Python, Java, HTML, CSS, JavaScript, SQL, Kotlin, Octave/MATLAB, R, Bash, PHP
- **Frameworks/Technologies:** Tensorflow, NumPy, Pandas, Keras, Flask, React, Redux, Node, .NET, WinForms, jQuery, Unity, Microsoft Azure, Linux, Excel, Git, XAMPP, MySQL, Tracker, Automation Studio
- **Other:** United States permanent resident (Green Card holder)

## Work Experience

### Software Developer Intern, ATS Corporation

Cambridge, ON, January - April 2023

- Created a user-friendly Python interface for the simulated PLC utilizing byte manipulation in shared memory, enabling clients to program and display real-time statistics through a cross-platform GUI toolkit, thereby significantly increasing the simulation software's functionalities.
- Manually verified servo delay of 7.6 milliseconds by recording shuttle and servo positions and velocities at various master speeds using a high-speed camera and physics modeling tool (Tracker), and determining if the data suggests a linear correlation, enhancing my proficiency in data analysis.
- Replaced all "pallet" strings in the simulation software with "shuttle" through cross-team collaboration, including contacting other teams for source files and software to generate diagrams and gifs, thus saving 2 weeks' worth of work time for the software team.

### Software Developer and Design Intern, Yuja Inc.

Toronto, ON, May - August 2022

- Developed new features for their Video Conference service such as whiteboard color and highlighting options, emoji reactions to messages, and a permissions dialog, using Java, React, and Redux, increasing customer satisfaction.
- Ensured that the Video Conference service followed ARIA accessibility standards by using HTML, CSS, and JavaScript, to make content aria-labeled, tab accessible, and styled to meet the Web Content Accessibility Guidelines (WCAG).
- Improved my workplace communication skills by closely working with the QA team to fix bugs and successfully release new features that complied with the performance and design expectations of customers.

## Projects

### Hack the North 2023: Health Harbor

September 2023

- Developed a sophisticated pharmaceutical inventory management application featuring an optimized, scalable database for disease categorization, alongside a powerful AI clustering system utilizing state-of-the-art language models for disease diagnosis and medication recommendations.
- Designed an inventory interface for presenting the current stock of medications, with the medication inventory being sourced from an extensive dataset encompassing detailed medication information, quantities, descriptions, and image URLs.
- Implemented database queries and backend endpoints using Python, PostgreSQL, and Flask.

### AGL Summer Game Jam 2022: Perfect Fit

June 2022

- Worked with two team members to design a game inspired by the game show "Hole in the Wall".
- Created the main menu and game logic, including how the wall moves and the scoring system, using the Unity Game Engine and C# scripts.

## Education

**University of Waterloo** - *Candidate for Bachelor of Computer Science, 3B - Cumulative Average: 92.88%*

September 2020 - 2025