

# Inderpreet Warraich

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## EDUCATION

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### Wilfrid Laurier University

Waterloo, Ontario

*Bachelor of Science (Honours), Computer Science*

*Expected Graduation: December 2025*

**Relevant Courses:** Object-Oriented Programming, Software Engineering, Applied Cryptography, Artificial Intelligence, Computer Networks, Text Retrieval and Search Engines

## EXPERIENCE

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### Customer Service Agent (Professional Line)

Jan. 2025 – Apr. 2025

*Crest and Oral-B (Remote)*

- Acted as a **sales representative** for dental offices, recommending and selling **electric toothbrushes, bundles, and hygiene products**.
- Delivered **technical support** and **product education** to dental professionals, ensuring high client satisfaction.
- Resolved **product, order, and service inquiries** efficiently in a **fast-paced remote environment**.
- Maintained **service quality metrics** by providing **accurate and prompt solutions**.

### Freelance IT Project Developer

Sep. 2023 – Dec. 2023

*Victoria Village Children's Services Ltd, Brampton, Ontario*

- Designed and developed an **Excel-based payroll application** using **VBA**, automating **manual calculations** and reducing **processing time by 15%**.
- Conducted **system analysis** to identify **inefficiencies** and recommended **customized improvements**.
- Built **intuitive user interfaces** for seamless **payroll data entry and reporting**.
- Provided **training materials** and **user documentation** to ensure **smooth staff adoption**.

### Data Analysis and Management Intern

May 2021 – Aug. 2021

*Centum Mortgage Smart Inc., Mississauga, Ontario*

- Developed and maintained **SQL databases** to optimize **mortgage data workflows**.
- Utilized **Python** for **data extraction, cleaning, and statistical analysis**.
- Collaborated **cross-functionally with the finance team** to integrate **technical solutions** into **business processes**.
- Created **dashboards and reports** for monitoring **mortgage application trends**.

## PROJECTS

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### Image Processing Pipeline (CP467 Course Project) | *Python, OpenCV, NumPy, Jupyter*

- Built a custom dataset of 10 object images and 30 multi-view scene images to simulate real-world occlusion and object overlap.
- Implemented an object identification pipeline using **feature detection and matching techniques**, evaluated with **precision, recall, F1-score, and accuracy**.
- Drew **bounding boxes and annotations** on detected objects for structured evaluation.
- Stitched 10 overlapping images to create a seamless **panoramic scene** and identified all objects within the panorama.

### 3D Rubik's Cube Simulation | *C++, OpenGL*

- Built an **interactive 3D Rubik's Cube simulation** using **OpenGL** with **matrix-based transformations**.
- Engineered an **object-oriented architecture** with **modular classes** for **scalable cube management**.
- Implemented **keyboard controls** to manipulate **cube rotations** in **real-time**.

### Point-of-Sale (POS) System | *Python, SQL*

- Designed and implemented a **POS system** with **inventory** and **sales management** functionality.
- Integrated **secure SQL database** and built a **user-friendly interface** to streamline **cashier operations**.
- Added **sales analytics features** for **performance tracking** and **revenue reports**.

## TECHNICAL SKILLS

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**Languages:** Python, C++, Java, SQL, C#, Lua, VBA, HTML, CSS

**Frameworks/Libraries:** OpenCV, OpenGL, Stable Baselines3, NES-Py, NumPy, pandas, Matplotlib, Love2d

**Tools:** Git, GitHub, Jupyter Notebook