

# Roop Bassi

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## EDUCATION

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### Wilfrid Laurier University

Waterloo, ON

*Bachelor of Science in Computer Science*

*Expected: 2025*

- **Major GPA:** 3.9
- **Relevant Courses:** Object Oriented Programming, Data Structures 1 & 2, Discrete Structures, Windows App Programming (VBA), Digital Electronics, Calculus I, Intro to Linear Algebra

## EXPERIENCE

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### Instructional Teaching Assistant

September 2022 – Present

*Wilfrid Laurier University*

*Waterloo, ON*

- Responsible for teaching **Python** to **50+** students in the Intro To Programming course.
- Leading weekly lab sessions and helping students by answering questions, reviewing code and providing feedback.

## PROJECTS

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### Portfolio Website | *JavaScript, HTML, CSS, React.js*

September 2022

- Created a responsive personal website with **React.js** to showcase my portfolio.
- Utilized **React Hooks** (useState, useEffect) and **React Router** (useLocation) to increase functionality of website.
- Designed using **Figma** and hosted on **GitHub Pages**.

### Discord Joke Bot | *Python, Discord API, Joke API, Heroku*

August 2022

- Developed a bot using **discord.py** which fetches jokes from a **web API** and displays them on command.
- Hosted with **Heroku** and can be added to discord servers for entertainment.

### Shortest Path Finder | *Python*

July 2022

- Utilized a **breadth-first search algorithm** to create a program that finds the shortest path in a 2-D array maze.
- Implemented the curses library to visualize the algorithm finding the shortest path in the console.

### University Google Chrome Extension | *HTML, CSS, JSON*

July 2022

- Published a Google Chrome Extension that bookmarks 3 essential links for a student at Wilfrid Laurier University to increase accessibility and save time.
- Designed the user interface using **Figma** and developed with **HTML5, CSS3** and **JSON**

## EXTRACURRICULAR

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### Chess Club

September 2021 – Present

*Wilfrid Laurier University*

*Waterloo, ON*

- Competed in the 2021-2022 Collegiate Chess League against universities from Canada, USA and England. Some of the Universities include University of Waterloo, University of Toronto, Harvard University and more.

### Laurier Computing Society

September 2021 – Present

*Wilfrid Laurier University*

*Waterloo, ON*

- Networked with many alumni and students which led to learning important career and tech advice

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, HTML, CSS

**Frameworks & Tools:** React.js, Node.js, Java Swing, Git