

# Zesan Rahim

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## EDUCATION

### Carleton University

Ottawa, ON

*Bachelor of Computer Science (BCs) - Honours (CO-OP)*

*Expected May 2027*

**Relevant Courses:** Data Structures and Algorithms, Objected-Oriented Programming, Discrete Structure II

## TECHNICAL SKILLS

**Languages:** Python, Java, C / C++, Java Script, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express.js, Tkinter, NumPy

**Developer Tools:** Git, AWS, VS Code, PyCharm, IntelliJ, Eclipse

## EXPERIENCE

### Carleton Artificial Intelligence Society

January 2024 – Present

*Carleton University*

- Initiated the revamp of the club, **laying the groundwork for future AI-focused events** and projects, by collaborating with fellow students
- Developed AI workshops for students, providing hands-on learning opportunities that enhanced **understanding of machine learning concepts for participants**

### Front-End Developer

June 2022 – Present

*905heaters*

*Hamilton, ON*

- Developed responsive and user-friendly interfaces for e-commerce website, improving user engagement and conversion rates by **23%** by leveraging **React.js and Shopify's framework**
- Integrated dynamic APIs into React applications, enabling real-time data updates and improved functionality, by utilizing Routing for API requests and handling asynchronous data flow with React hooks
- Implemented strategies to **optimize e-commerce website performance**, resulting in over **\$300,000 in sales**, by improving site speed and enhancing user experience.

## PROJECTS

### Portfolio Website | *React, Tailwind CSS, Java Script*

September 2024

- Developed a dynamic and interactive portfolio website using **React and JavaScript, along with HTML and CSS**, to enhance user experience and improve website functionality
- Demonstrated strong **project management skills** and creativity by designing a responsive user interface, planning the website architecture, and integrating aesthetic and functional components through React's component-based structure and JavaScript's interactivity.

### Maze Solver | *C++*

May 2021

- Accomplished **efficient 2D maze traversal** as measured by successful identification of optimal paths in various test mazes, by **implementing a Depth-First Search (DFS)** algorithm in C++ using x and y coordinates
- Leveraged **Data Structures and Algorithms** as measured by efficient storage and traversal of maze data, by utilizing **stacks** to implement the DFS algorithm and effectively manage **recursive backtracking** in a 2D grid

## LEADERSHIP

### Tournament Coordinator

May 2021 - January 2022

*Vain.gg*

*Online*

- Organized a large-scale Valorant tournament with over **1000 participants**, ensuring smooth coordination of teams, brackets, and match schedules across multiple stages
- Used custom Discord bots developed in **JavaScript to automate tournament brackets** and manage match schedules, making it easier to handle player registrations and results efficiently.
- Secured \$2500 in prizes by collaborating with sponsors**, increasing the tournament's appeal and creating opportunities for brand exposure throughout the event