

# SAT ARORA

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## SKILLS

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

**Technologies:** Vue.js, React.js, Firebase, Express.js, Node.js, Git, MongoDB

## PROJECTS

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**WatlamLOST** 🔗 | [React Native](#), [TypeScript](#), [Express.js](#)

February – March 2022

- **Winner** of the W22 Project Program, with 13 teams taking part
- Simulated user bookings for study sessions on campus using **MongoDB** with a local server
- Designed the front-end page for the study sessions and main login page using **React State Management**

**Interlink** 🔗 | [React.js](#), [Next.js](#)

January 2022

- **Security & Networking Category Winner** at McHacks 9
- Simulated a local network connection across devices on the internet by translating TCP Sockets into WebSockets and accessing those on different computers
- Integrated the custom database API with the front-end components on the web dashboard

**FocusCord** 🔗 | [Vue.js](#), [Electron](#)

September 2021

- Wrote the front-end for an application that integrates with the **Discord API** to notify users via SMS and desktop notifications whenever they receive messages from certain users
- Constructed the architecture of a JSON database to enable multiple active profiles for a single user

**RPG Game Engine & Renderer** 🔗 | [Java](#), [Swing](#), [AWT](#)

March – June 2020

- Built an interface for customizing top-down and platform style games with enemies, objects, and story lines using **object-oriented programming**
- Enabled save-store-recovery for build data and game progress using Java serialization

## EXPERIENCE

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**Community Coordinator**

September 2021 – Present

*UW Computer Science Club*

*Waterloo, ON*

- Led **2 large-scale initiatives** to hear the voices of computing enthusiasts in UWaterloo of all age groups
- Assigned weekly tasks to team members to follow the timeline for each initiative

**Programming Lecturer**

September 2020 – June 2021

*Vincent Massey Computer Science Club*

*Windsor, ON*

- Gave weekly lectures on programming topics such as **dynamic programming**, **data structures**, and **graph theory**
- Coordinated programming competitions by **creating and testing** original problems with clever solutions

**Mentor**

September 2019 – May 2020

*CodeReach*

*Windsor, ON*

- Taught students several problem-solving and code development techniques using **Python**
- Provided guidance with problem-solving and bug-fixing approaches in game development and algorithms

**Systems Administrator**

September 2017 – Present

*Anup Trading Ltd.*

*Windsor, ON*

- Oversaw all purchase and sales transactions, and frequently updated the company's system
- Worked with **Microsoft Office** and **Quickbooks** to compress information for financial summaries per fiscal period

## EDUCATION

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**University of Waterloo**

September 2021 - April 2026

*Bachelor's of Computer Science*

*GPA: **3.98 (94.4%)***

- Awarded **1 of 10** René Descartes National Scholarships (**\$20000**)