

# Faseeh Irfan

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## TECHNICAL SKILLS

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**Languages:** JavaScript, C/C++, Python, C#, Java,

**Technologies:** React, Node.js, NoSQL, Docker, Heroku, Axios, Socket.IO, Chakra-UI, PyGame, Arduino IDE

## PROJECTS

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### 🔗 Chatty - Messaging App | *React, Node.js, MongoDB, Socket.IO*

- Built the frontend user interface using **React.js with hooks** and the **Chakra-UI** library.
- Created **APIs** for searching for users, creating chats, and sending messages using **Node.js** and **Express** with **MongoDB**.
- Defined complex schemata and models for chats and users, and worked with queries.
- Implemented an encrypted login and registration system using **middleware**, **bcrypt** and **JWT**.
- Used **Socket.IO** to implement real-time, bi-directional group or direct chat messaging and notifications between users.
- Future plans to display the user's online status and deploy the web application to **Heroku**.

### 🔗 soloCar | *Java, Arduino*

- Worked in a team of 4 to build a **self-driving** autonomous car that was able to seek light rich areas.
- Programmed an [object avoidance algorithm](#) using an Arduino, Ultrasonic Sensors, and DC Motors.

### 🔗 Personal Portfolio | [🔗](#) | *JavaScript, HTML, CSS*

- Developed a frontend landing page for a personal portfolio using JavaScript, HTML, and CSS.
- Implemented a **floating navigation bar** and **smooth scrolling** using CSS.
- Implemented navigation bar animations using JavaScript.
- Created a responsive user interface to appeal to a variety of screen sizes.

### 🔗 A\* Pathfinding Visualizer | *Python, PyGame*

- Implemented the A\* Algorithm to find the shortest distance between two nodes **while navigating obstacles**.
- Built with Python using the PyGame library for the visualization.
- Added functionality to allow the user to reset and manipulate the field.

### 🔗 CS137 Assignments | *C*

- Assignments related to **data structures** such as linked lists and binary trees, and searching and sorting **algorithms**.

## EXPERIENCE

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### Computer Technician

Aug. 2021 – Aug. 2022

*Best Buy, Geek Squad*

- Performed computer system maintenance, software and peripheral installation, troubleshooting and repair.
- Replaced broken computer components such as **Wi-Fi cards, HDD's and SSD's, Graphics cards**.
- Installed BIOS and OS Drivers, cleaned up viruses, and re-installed operating systems, **completing over 7 repairs/day**.
- Built and repaired **over 30 Office and Gaming PCs**, through connecting with customers and their needs.

### Senior Developer and CAD Designer

Sept. 2019 – June 2021

*Seaquam Secondary School*

- Programmed the autonomous and remote controlled sections of the team's robot using **C++** for the VEX Robotics Competition that resulted in a **World Championship Qualification**.
- Programmed in **C++** and designed a CAD model for a robot prototype to autonomously find and collect cubes and move them to the end zone using [Robot Mesh Studio](#).

### Senior Associate

July 2019 – Sept. 2021

*Dollar Tree*

- Achieved over **\$2000** in sales per day, through customer engagement and sharing product knowledge.
- Trained **5** new employees, unloaded trucks, received and stocked merchandise.

## EDUCATION

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### University of Waterloo

Waterloo, ON

*Bachelor of Software Engineering, Honours 3.6/4.0 GPA*

*Sept. 2022 – April 2027*

- President's Scholarship of Distinction, Waste Connections Canada Scholarship, BC Achievement Scholarship
- Relevant Coursework: Programming Principles, Methods of Software Engineering, Data Abstraction