

# Huzaifa Rehan

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## EDUCATION

**Carleton University** | Ottawa, Canada

*Bachelor of Computer Science co-op, Minor in Statistics*

*Awards: Academic Achievement, Entrance Scholarship, Deans' Honor List*

*GPA: 3.9/4.0*

*Expected: Dec 2026*

## TECHNICAL SKILLS

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

**Technologies:** Express.js, Node.js, PostgreSQL, MySQL, SQLite, SQL Server

## EXPERIENCE

**Undergraduate Teaching Assistant**

Jan 2024 – Apr 2024

*COMP 1405 – Intro To Computer Science, Carleton University*

*Ottawa, ON*

- Collaborated with Professor to grade assignments, delivering detailed and constructive feedback. Provided specific guidance on areas for improvement, I helped students enhance their programming skills and overall academic performance.
- Directed weekly office hours by assisting students in understanding and debugging their programs, encouraging them to use good coding practices and software engineering practices which help refine their assignments and career.

**Software Engineer Intern**

May 2023– Aug 2023

*TechForGood.inc*

- Developed a high-impact medical application for hospitals in Tanzania by creating a comprehensive tool proficient in disease tracking and patient database management, significantly improving healthcare efficiency and patient care quality.
- Established connections among doctors by implementing a shared database, leveraging Postgres, REST API, Spring boot, Gradle, Java and **React**, with imminent migration to the Microsoft Azure platform
- Utilized data visualization tools like Grafana Labs to create dynamic visual representations of medical case distribution on a map. Improved situational awareness and decision-making by offering a view of disease distribution across regions.

## PROJECTS

**Gym Management Software** | JavaScript, Node, Express, Postgres

[github.com/MrFibonacci/Healthcare-System](https://github.com/MrFibonacci/Healthcare-System)

- Engineered a JavaScript based gym management web application enabling fitness gyms to efficiently register members, trainers and managers while facilitating the creation of personalized training sessions and health trackers.
- Designed an Entity-Relationship model to accurately represent the system's data relationships. Transformed this model into a BCNF-compliant database schema to ensure data integrity and efficiency while documenting the database architecture
- Integrated user payments to record transactions securely and authenticate them, enhancing customer satisfaction.
- Optimized back-end SQL queries to streamline testing processes and optimize interaction with the database

**AI Crash Detection** | JavaScript, Express.js, Node.js, AI, Google maps

[github.com/MrFibonacci/Route-Guardian](https://github.com/MrFibonacci/Route-Guardian)

- Developed a web application that maps and visualizes crash data in Montreal, highlighting accident-prone areas with over **80% precision** to enhance route planning, improve public safety, and support data-driven decision-making
- Integrated AI algorithms to offer personalized safety recommendations for Google Maps users, leveraging statistical insights from historical crash data to mitigate potential risks during route planning
- Collaborated closely with two teammates, utilizing Jira for efficient project planning, task allocation, and progress tracking. This enabled seamless coordination and timely delivery of project milestones, enhancing overall productivity and success

**Online Multiplayer Shooter Game** | JavaScript, Express.js, Node.js, Socket.io

[github.com/MrFibonacci/shoot.io](https://github.com/MrFibonacci/shoot.io)

- Developed an engaging **online multiplayer shooter game** featuring dynamic player interactions and strategic gameplay mechanics using JavaScript and Express.js
- Incorporated **Socket.io** for real-time communication, enabling a leaderboard system to track and display player rankings, enhancing competitive play and user engagement

**Highschool Booking System** | JavaScript, PHP, HTML/CSS, jQuery, MySQL.

[github.com/MrFibonacci/booking-sys](https://github.com/MrFibonacci/booking-sys)

- Collaborated with teachers and students to develop a full stack web application, replacing the school's outdated booking system. Customized for efficient management of bookings and calendars across **20+ classes**, ensuring seamless
- Simplified testing procedures and enhanced database interaction through optimized back-end SQL queries.
- Created the front end with an integrated calendar to showcase bookings in real time and an authentication system to prevent unauthorized access, connecting teachers to their designated school systems securely.