

Nafiz Hasan

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Education

University of Windsor

Windsor, ON

- *Bachelor of Computer Science (Honours) - Computer Science Co-operative Education*

Sep. 2021 - Current

- Completed fall 2021 term with a Major average of **97.5%**
- Completed Winter 2022 term with a Major average of **95.6%**

Vincent Massey Secondary School

Windsor, ON

- *High School*

2017-2021

- Graduated with Honors, **94%** top 6 average, and Honour List each year.
- Relevant courses: Computer Science (ICS4U), Advanced Functions (MHF4U), Calculus and Vectors (MCV4U), Mathematics of Data Management (MDM4U), English (ENG4U)

Projects

Real Time Messaging App

- *React and Firebase*

2021

- Created a messaging app with react frontend and firebase backend, with google authentication
- Used React functional components, styled-components and hooks to efficiently design an appealing UI/UX
- Used various NPM libraries and Firebase to deploy the app

Randomly Generated 2D Platformer

- *Java*

2019

- Showcased Object Oriented Programming principles by creating a platform game through java.
- Created a randomization algorithm to generate platforms, enemies, and items.
- Created a boss battle AI with different attack patterns.

Space Invaders Game

- *Java*

2019

- Recreated Space Invaders in java
- Created functional components for enemy interaction, map generation, and rounds
- implemented an animation system for enemies

Paint and Drawing Application

- *Python and Pygame*

2018

- Recreated Microsoft Paint with a Mario theme using Python's Pygame extension.
- Implemented a spray-fill algorithm to create a spray paint tool for users
- Designed a list storage system, enabling undo/redo functionality

Awards and Achievements

10 th place in ICPC regionals	2021
Dean's Entrance Scholarship (\$10,000)	2021
Vincent Massey Academic Achievement Award	2020

Skills

Languages: C/C++, Java, Python, C#, HTML/CSS, JavaScript, L^AT_EX

Technologies: Pygame, NodeJS, MongoDB, React, Mongoose, Express, Git/Github, Wix, Unity

Miscellaneous: Strong verbal and written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, good teams skills

Interests

Academic: Creating software, Artificial intelligence, Video game design

Membership: Computer Science Society member

Other: Reading novels, Chess