

# Navjeet Doad

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## TECHNICAL SKILLS

- Programming Languages/Markups: Java, Python, C/C++, Scheme, Lua, HTML, CSS

## PROJECTS

### Personal Website

01/2021

- A personal website made for the purpose of keeping a portfolio of side projects
- Created in **HTML** and **CSS**

### A-Star Pathfinding Algorithm Visualizer

12/2020

- A program that uses the A-Star pathfinding algorithm in order to visualize the shortest path between a start point and an end point of the user's choosing
- Allows the user to put down barriers, which the algorithm will avoid when generating a path
- Made using **Python** and the **Pygame** framework

### Shovel Knight

04/2019 – 06/2019

- A recreation of the side-scrolling platformer game Shovel Knight
- Created in **Java** using **Object Oriented Programming** and the **LibGDX** framework
- Created a game map using the **Tiled** map editor, and used layers to distinguish the characteristics of various tiles

### 2048

01/2019 – 03/2019

- A recreation of the notorious game 2048
- Created in **Java** using **Object Oriented Programming** and the **LibGDX** framework

### Binding of Isaac

04/2018 – 06/2018

- A recreation of the famous top-down dungeon crawling video game Binding of Isaac
- Implemented features such as multiple rooms, power-ups, enemy AI, and a live mini-map
- Developed in **Python** using the **Pygame** framework and the **Math** module to modify in-game physics

### Graphic Design Application

12/2017 – 01/2018

- A functional graphic design application that includes features such as painting, text, flood-filling, and undo/redo capabilities
- Developed in **Python** using the **Pygame** framework

## EDUCATION

### University of Waterloo

*Bachelor of Mathematics (Major Undeclared)*

09/2020 – present | Waterloo, Canada

- CGPA: 3.84/4.00

### Vincent Massey Secondary School

*Ontario Secondary School Diploma*

09/2016 – 06/2020 | Windsor, Canada

- 92% Top 6 Average

### edX: Harvard University

*CS50's Introduction to Game Development*

06/2020 – 09/2020

- An introduction course to game development taught in Lua using the Love2D software

## ORGANISATIONS

### Windsor Miracle Food Drive

*Volunteer*

06/2020 | Windsor, Canada

- Gathered non-perishable food donations from residents across Windsor

### Children's Christmas Party

*Event Host*

12/2018 | Windsor, Canada

- Coordinated events for underprivileged children at Vincent Massey Secondary School

### Windsor Public Library

*Child Mentor*

07/2017 – 08/2017

- Helped coordinate events at the library for children

## AWARDS

### President's Scholarship

*University of Waterloo*

20/05/2020

- An entrance scholarship of \$2000 awarded to incoming students with an admission average between 90% and 94.9%.

### Certificate of Distinction for Hypatia

*Vincent Massey Secondary School*

04/2019

- A certificate given out for placing in the top 25% on the Hypatia math contest.

## LANGUAGES

- English, Hindi, Punjabi