Navjeet Doad

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↸ https://navjeetdoad.github.io/navjeetdoad/

TECHNICAL SKILLS

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

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, along with C# and Unity

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