

Manraj Gill

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EDUCATION

UNIVERSITY OF WINDSOR | B.C.S IN COMPUTER SCIENCE (HONOURS)

September 2018 - Present | Windsor, ON

Courses: Theory of Computation, Network Security, Principles of Programming Languages, Design and Analysis of Algorithms

EXPERIENCE

CITY OF WINDSOR | DATA MANAGEMENT

Jan 2021 – Aug 2021 | Windsor, ON

- Worked with a team to manage asset data collection of over 200 parks in Windsor
- Verified and updated over 4000 assets using Citywide Software and Geode
- Planned the sequencing of data collection in over 150 parks which increased the rate of collection by nearly 50%
- Regularly performed quality checks on assigned assets in Database

PROJECTS

SORTING ALGORITHM VISUALIZER

- A web application written in Javascript that displays how various sorting algorithms work using Chart.js
- Developed visualizations for Bogo, Bubble, Selection, Insertion, and Quick Sort
- Implemented a visual tracer for every step of each sorting algorithm

SHOEFULL

- A 2D platformer made using Rust and ggez to learn more about game frameworks
- Developed custom gravity and acceleration physics as well as standard collision

PATHFINDER

- Software written in Python that visually represents how Dijkstra's Algorithm is used to find the shortest path between two nodes
- Allows user to place nodes and walls in a grid and calculates most efficient non-diagonal pathing option

SKILLS

LANGUAGES

Python • HTML/CSS • Javascript • PHP
Java • C • \LaTeX

TECHNOLOGIES

Git • Linux • Vim • ReactJS
NodeJS • Flask

EXTRACURRICULAR

Hack the Hammer | McMaster University | Feb 2018

UML Modeling Certification | Linkedin Learning | Oct 2020