Omar Shabana

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Toronto, Ontario

SKILLS

PROGRAMMING AND TOOLS

Web Tools
- HTML+CSS
- JavaScript/TypeScript
- React
- Node

General Purpose Programming
- Python
- C
- Java
- C#

Tools
- Git
- Linux/Unix
- MongoDB
- SQL

COURSEWORK

Software Development
Algorithm Design and Analysis
Data Structures and Analysis
Web Development
Theory of Computation
Software Tools & Systems Programming

SOFT SKILLS

Problem solving
Analytical skills
Communication
Resourceful
People oriented
Critical thinking

LINKS

GitHub: github.com/oshabana
Website: oshabana.github.io/Portfolio/

EDUCATION

UNIVERSITY OF TORONTO

Bachelors of Science
Majored in Geographical Information Systems
Minored in Computer Science & Mathematics
Expected May 2021

PROJECTS

COVID-19 SHOPPING APP | React, Node & MongoDB
- Worked with a team to create an application designed to assist at risk people with grocery shopping
- Implemented features like a synced grocery list between user groups and an administrator panel for database manipulation
- Programmed back-end features such as user authentication that involved multiple tiers such as user, group admin etc

2D GAME ENGINE | HTML, CSS & JavaScript
- Developed a 2D game engine with features like movement, projectiles, and UI elements
- Focused on making interactive 2D retro games easier to develop in as few lines of code as possible
- Designed this engine to be used by new programmers for a fun learning experience
- Used a minimalist tech stack of HTML, CSS and JavaScript without requiring external libraries

PORTFOLIO TRACKER | React, Node & MongoDB
- Integrated libraries like react-cookie, mongoose and bycrypt to mange user state and authentication
- Created an API to assist the front-end with displaying user portfolios
- Learned to retrieve stock asset information using an external API
- Manged user data using MongoDB

SENTIMENT ANALYZER | Python
- Built a CLI that scores the sentiment of a query's top news articles
- Scraped information with Python from top Google News articles
- Used Natural Language Processing libraries to analyze the scraped data and score its sentiment to estimate how it is viewed by the public