Omar Shabana

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Toronto, Ontario

SKILLS

PROGRAMMING AND TOOLS

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

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
LinkedIn
Personal Site

EDUCATION

UNIVERSITY OF TORONTO

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

PROJECTS

PUBLIC SHOPPING APP | React, NodeJS & MongoDB

- Worked as a team to create an application designed to assist people with grocery shopping
- Implemented features like a synced grocery list between user groups and an administrator panel for database manipulation
- Integrated back-end features such as user authentication that involved multiple tiers such as user, group admin etc

GitHub | Live Link

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 (mainly canvas), CSS and JavaScript without requiring external libraries

GitHub | Documentation

FINANCE PORTFOLIO TRACKER | React, NodeJS & MongoDB

- Used tools like react-cookie, mongoose and bycrypt to mange user state and authentication
- Implemented a REST 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

GitHub

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

GitHub