

Omar Shabana

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SKILLS

PROGRAMMING AND TOOLS

Web Tools

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

General Purpose Programming

- Python
- C

- Java
- C#

Tools

- Git
- Linux/Unix
- MongoDB
- MySQL

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 requiring help from no external libraries

[GitHub](#) | [Documentation](#)

FINANCE PORTFOLIO TRACKER | REACT, NODEJS & MONGODB

- Used tools like react-cookie, mongoose and bcrypt to manage 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
- Managed 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](#)