

# 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](#)