# **Omar Shabana**

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### Education

**University of Toronto** 

Toronto, ON

Expected: May 2021

Honours Bachelor of Science.

**Major:** Geographic Information Systems

Minors: Computer Science, Mathematics

### Skills

Languages: JavaScript(ES6)/TypeScript, HTML5, CSS3, Python, C, Java, SQL

Frameworks/Libraries: React.js, Node.js, Express.js, Jest, Puppeteer

**Tools:** Git, Linux, MongoDB, Docker, Kubernetes

## **Projects**

**Grocery Shopping App** 

Website | Code

- o Constructed with React.js, Bootstrap, Node.js, Express.js and MongoDB
- o Participated in using industry software engineering practices such as creating design documents and scrum meetings
- o Added user authorization which involved multiple tiers such as user, group administrator and server administrator
- o Implemented features like synced grocery lists between user groups and administrator panel for database manipulation

**Asset Portfolio Tracker** Code

- o Built a full-stack app with React.js, Node.js, Express.js and MongoDB
- o Integrated libraries like react-cookie, mongoose, axios, as well as bcrypt, to mange authentication and user state
- o Designed a REST API to assist the front-end with displaying user portfolios
- o Used an external API to retrieve stock data

#### 2D Front-End Game Engine

Website | Code

- Used HTML, CSS and JavaScript
- o Developed a 2D game engine with features like movement, projectiles, and user interface elements
- o Focused on making interactive 2D retro games easier to develop in as few lines of code as possible

3D Foraging Game Code

- o Created a game using C# and Unity
- o Implemented camera controls like zoom in and out
- o Included user interface elements like a backpack and an object identifier
- o Added player controls and skills such as mining and woodcutting

### **Experience**

**Tim Hortons** Mississauga, ON

Supervisor, September 2014 – December 2018

- o Oversaw all store operations when present
- o Solved problems quickly in a fast-paced, high stress environment
- o Created and implemented a system to improve drive-thru service times by over 30% during peak hours