+1 (647) 376-3565
Ali Al Shammaa
a8alsham@uwaterloo.ca
Ali Al Shammaa
AliAlShammaa

Ali Al Shammaa

UW BCS 1B STUDENT

SOFTWARE SKILLS

- Languages : JavaScript, TypeScript, Python, Java & Racket.
- Web development : React, Angular, Firebase & Express.js.
- Tools : Git, BootStrap & FontAwsome. Tkinter & Selenium (Python).

WORK EXPERIENCE

1. Frontend Web Developer @ Atlas365

Jul - Sep 2020

- Enhanced **5+ major components** in an **Angular** website that increased **user satisfaction**.
- Updated **8 error-handling components** to ensure that the website is **robust and bug-free**.
- Enhanced the code's quality by refactoring and introducing linting/formatting to **increase team productivity**.

2. Platform Bot developer @ Game Pill

Jun - Nov 2020

- Designed **4 Bots** (at request) for **3 social media platforms** and included a GUI in Python using **Tkinter & Selenium** which helped connect to **many beta pro-gamers** and **added ~20 followers each run**.
- Used **OOP** to enhance the maintainability and development of the software.

3. Research Assistant @ LiTrans Lab - Ryerson University

Aug - Sep 2019

- Enhanced the photorealistic aspects of a VR simulation in Unity3D to **improve reaction accuracy** of the subjects in an experiment.

PERSONAL PROJECTS

1. Personal Website www.alialshammaa.me

- Developed the website using **React** and related technologies. (See site for more details)

2. Express.js backend App

- Implemented REST API in Express.js

3. MyReact WebApp https://learn-react-c0991.web.app/

- Developed the website using **React, React Router, Firebase, Axios, BootStrap and FontAwsome.**
- Implemented **API** calls and fetched data with and without **Axios**.
- Used **React** hooks to present the data returned from API.

4. ChessML chess engine

- Implemented a Chess engine using a **Minimax Algorithm** enhanced with **AlphaBeta pruning**.
- Integrated the following solutions to improve **pruning** : **HashTables with Zobrist Hashing**, **Iterative deepening framework**, KillerMove heuristics and move reordering.

5. PassGENIE password generator

- programmed a password generator based on input by the user in **Python using procedural programming**.
- Written in **Python** with a **Tkinter-based UI** and an authorisation system.

EDUCATION

- UWaterloo - Bachelor Of Computer Science Student : 92 % GPA & 94% Math GPA in 1A