Mohsin Malik

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Seeking to secure a challenging entry-level position in a reputable organization where I can dedicate myself fully, grow my skills, and contribute for the long term.

EDUCATION

Wilfrid Laurier University   **Waterloo, ON**
Honours Bachelor of Science   *Class of 2023*

- Recent graduate in Honours BSc Computer Science Major (June 13 2023)
- Courses:
    - Computer Data Structures 1 & 2
    - Software Engineering
    - Object oriented Programming
    - System Programing & Operating Systems
    - Artificial Intelligence, Computer Networks
    - Other notable courses include: Applied Cryptography, Windows App Programming, Android App Programming, Data Visualization, E-commerce, Computer Algorithm Analysis, Database 1

SKILLS

Languages: Python, Java, C++, C, Javascript, PHP, SQL, HTML   **OS:** Windows, Linux, Android

Frameworks/Libraries: React, Django, Node.js, Three.js, Gsap   **Version Control System:** Git

SUMMARY OF QUALIFICATIONS

- Proficient in Python, Java, C, JavaScript, HTML, CSS, JSON, React, Node.js, Django, Git, and Visual Studio.
- Worked on both individual and group projects, with roles ranging from back-end developer to project lead.
- Experience in developing for windows, linux and android apps, web development, game development, Computer Network coding, system programing, database design.
- Integrated APIs such as Twitter, Google, Reddit, OpenAI, and others (e.g., PokeAPI, Jikan API) in academic and personal projects.
- Familiar with VBA, PHP, SQL, C++, Unity, computer hardware design, cryptography, and ARM architecture.
- Built and deployed various eCommerce websites and various games.
- 8+ years of coding experience, starting in early high school.

PERSONAL PROJECTS

- Built a bullet shooter game in Java utilizing object-oriented programming and implemented a simple AI algorithm for enemies that adapt by recognizing object patterns and learning from multiple playthroughs.
- Use of the Twitter API to get tweets from a given user & tweet data to construct a user sentiment analysis on a given game company such as Playstation

- Developed a Pokémon trivia website leveraging the PokeAPI and Pokémon Showdown for real-time data, including accurate Pokémon stats and sprites. Integrated OpenAI to dynamically generate trivia questions, enhancing user engagement and content variety.
- 2 different E-commerce websites each had the capability to sell products to users

CODING PROJECTS

AI JAVA PROJECT (https://github.com/Mohsin230/javaAI_diagnosis)

- Java assignment in a Artificial intelligence course, showcasing a program adapting to user inputs given to better provide an accurate medical diagnosis

STOCK EYE APP (https://github.com/Mohsin230/stockEye)

- Group project, back end role and proposed the ideas and functions of the project (and Implemented **API usage**)
- Had experience with the twitter api in a personal project and some work in sentiment analysis, so I proposed a program where stock market investors can look at which stocks are being talked about a lot recently on social media sites such as twitter and google
- Made in response to at the time huge rise of gamestops' stock

3D PS1 WEBSITE (**https://mohsin230.github.io/ps1Experience**) | html, css, javascript, three js, gsap, json

- GitHub Link: (**https://github.com/Mohsin230/ps1Experience**)
- Personal project, using three js to render 3d models, gsap for 2d and 3d animations, and scroll trigger to have seamless scrolling animations
- Json database that allows the website to efficiently update data for various disc information such as images, links, descriptions, 3d models
- actively updated over time to have improved features, improved mobile responsiveness, ui improvements

CLIENT TO SERVER APP (https://github.com/Mohsin230/CompNetworkProject)

- Computer networks assignment, showcasing use of client to server connection, allowing multiple clients to simultaneously update data held on a server and to retrieve the state of its data at any moment.

CRYPTOGRAPHY PROJECT (https://github.com/Mohsin230/CryptoAssignment1)

- Assignment in a cryptography course, showcasing the use of simple encryption/decryption, crypto analysis of an extended atbash cipher, the spartan scytale cipher and a polybius square cipher as well as the use of a dictionary file, to detect a plaintext and accomplish the crypto analysis

VOLUNTEERING

Al Falah Islamic Centre   **Mississauga, ON**
Event Volunteer   *May 2015*
- Setup equipment for cultural festival
- Facilitated operations for third party vendors