Omar Khan

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EDUCATION

BSc in Computer Science ○ CGPA: **3.85 / 4**   **University of Calgary | Sep 2021 – Apr 2025**

Awards and honors: Faculty of Science Dean's List, Jason Lang Scholarship, Alexander Rutherford Scholarship

Some relevant courses: Data Structures, Algorithms, and their Analysis ● Theoretical Computer Science ● Computing Machinery ● Software Engineering ● Information Security ● Reverse Engineering

EXPERIENCE

Research Assistant   **UCalgary Experience Ventures | Dec 2022 – Apr 2023**

- Conducting background research in existing technologies for VR laboratories and training simulations.
- Working with a grad student to prepare a business model and develop a commercially available VR scientific laboratory.

SKILLS

Programming	C#, Java, JavaScript, Kotlin, Python, Web development (HTML+CSS), ARM64 Assembly
Technologies	Unity3D, React, ASP.NET MVC, Tailwind, Jetpack Compose, JavaFX, BeautifulSoup4, JUnit
Languages	English, Hindi (limited), Urdu (limited), French (limited)

PROJECTS

Calgary Drone Simulator ○ Game ○ Independent ○ View on GitHub   **Oct 2022**

- Developed a drone simulator set in a model of downtown Calgary that I built in Blender using real-world satellite data.
- Wrote C# scripts for handling drone physics and controls and other game interactions in the Unity game engine.

POWER THRU ○ Web app ○ Collaborative (3) ○ View on GitHub   **Hack the Change | Nov 2022**

- Collaborated in a group of three to build a 3D React app that aims to support those struggling with addiction.
- Designed and developed the 2D part of the UI and the app logic using JavaScript, React, and Tailwind CSS.

Portfolio Website ○ Website ○ Independent ○ View on GitHub   **July 2022**

- Designed and developed a responsive calligraphy-inspired portfolio website using HTML, CSS and JavaScript.

Calgary Connect ○ Web / Android app ○ Collaborative (9) ○ View on GitHub   **YYC Hacks | July 2022**

- Built an application in a group of nine to inform tourists on events and attractions in downtown Calgary.
- Developed an Android component with Kotlin and Jetpack Compose, connected it to an events API and Google Maps.

Music Discovery App ○ Android app ○ Independent ○ View on GitHub   **June 2022**

- Developed 'Discover Electronic', an app to introduce users to electronic music and give them tailored recommendations.
- Designed a user interface and built it using the Jetpack Compose framework for Kotlin.

Prayer Time Retriever ○ Desktop app ○ Independent ○ View on GitHub   **May 2022**

- Built an Islamic prayer time retriever using Python to allow users to easily find prayer times for their location.
- Implemented a webscraping algorithm using the BeautifulSoup4 library to retrieve prayer times for any city in the world.

2-Player Snake Game ○ Web game ○ Independent ○ View on GitHub   **Aug 2022**

- Re-created the snake game with a local multiplayer twist using JavaScript and CSS.