

Omar Khan

Student, Developer and Researcher

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EDUCATION

BSc Honours in Computer Science ◦ CGPA: **3.85 / 4** **University of Calgary** | **Calgary, AB** | **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 • Linear Algebra • Calculus

EXPERIENCE

Undergraduate Researcher (Part-Time) **University of Calgary** | **Calgary, AB** | **Jan 2023 – Present**

- Research in digital twins, AR/VR and human-computer-interaction the HXI lab under supervision of Dr. Kangsoo Kim.
 - Developed a web-app using ASP.NET, C# and JavaScript for the purpose of streamlining hazard inspections.
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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.
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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.
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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.
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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.
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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.
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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.