**Zarif Khan**

Ottawa, ON | [www.linkedin.com/in/zarif-khan-40aa62215](http://www.linkedin.com/in/zarif-khan-40aa62215) | 613-981-9377 | [zarifzawadkhan96@gmail.com](mailto:zarifzawadkhan96@gmail.com)

**EDUCATIONCarleton University** 1125 Colonel By Dr, Ottawa ON K1S 5B6, Canada

*Bachelor of Engineering - Software Engineering Expected Graduation: June 2025*

**SKILLSProgramming Languages**: 2+ years in Procedural Programming, 1+ years in Object Oriented Programming, 2 + years in Python, 2+ years in C, 2+ years in Java, 6+ months HTML, 3 months+ Assembly code (ARM architecture)*,* 3+ months CSS, 2+ months in Go-Lang  
**Technologies**: Github  
**Tools**: Visual Studio Code, IntelliJ, Wing 101, Word, Excel, Fusion 360

**LEADERSHIP EXPERIENCE / PROJECTS**

Carleton University 1125 Colonel By Dr, Ottawa ON K1S 5B6, Canada

*Lead Software Engineer of Interactive Dataset Analyzer* (January 2022- May 2022)

* Orchestrated and guided a cross-functional team of four members in developing an interactive dataset analyzer program, revolutionizing user interaction with a virtual library, and streamlining data analysis and insights delivery.
* Demonstrated expertise in Python systems and structures, leveraging knowledge to architect a robust code foundation for the project.
* Developed critical data analysis skills, fostering collaboration among team members to handle complex datasets and deliver meaningful insights effectively.
* Accountable for coding tasks, conducting thorough code reviews, and enforcing adherence to the completion of deliverables every two weeks, resulting in the successful delivery of fully functional software within ½ months.

Carleton University 1125 Colonel By Dr, Ottawa ON K1S 5B6, Canada

*Lead Mathmatechian and Design - Roof Truss Design* (Oct 2021- Dec 2021)

* Utilized analytical skills to design a truss system for the roof of a field hockey arena, considering factors such as load requirements, material strength, and structural stability.
* Employed advanced analytical techniques to calculate the appropriate support locations for the truss system, considering the weight of the roof, potential snow loads, and wind forces.
* Utilized structural analysis software or manual calculations to determine the necessary reactions and forces acting on the supports, ensuring their adequacy and safety.
* Utilized Fusion360, a computer-aided design (CAD) software, to create detailed and precise engineering drawings of the truss system.

Carleton University 1125 Colonel By Dr, Ottawa ON K1S 5B6, Canada

*Lead Software Engineer - Smart Mirror and PI Cleaner* (March 2022- Apr 2022)

* Utilized Raspberry Pi, a small single-board computer, to design and construct a smart mirror that displays real-time information such as time and weather.
* Developed a code using programming languages such as Python or JavaScript to retrieve and display the desired information on the mirror's surface.
* Developed an estimated timeline, breaking down the various stages of the project and outlining key milestones and deliverables.
* Conducted a detailed cost analysis, accounting for all the necessary components, materials, and any additional expenses involved in the project.