

# MADIHA KHAN

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[@madihaisawesome\(Madiha\)](https://madihaisawesome(Madiha)) | <https://madihasportfolio.vercel.app/>

## Education

**Bachelor of Science, Software Engineering**  
Schulich School of Engineering, University of Calgary

Expected graduation: April 2027

## Core Skills

- Programming languages: Python, C, C++, Java, Javascript
- Tools and Environments: Git, GitHub, Visual Studio, Linux/Unix shell, Linux/Unix, MySQL
- Databases: MySQL, SQL
- Concepts and methodologies: Object-oriented programming/design, Data Structures and Algorithms, Embedded Systems, Scripting, Debugging, Performance Optimization, UI/UX Implementation
- Transferable Skills: Workflow Automation, Project Ownership, Clear Communication, Adaptability in Remote Settings
- Other: MATLAB, Microsoft Office Suite
- Transferrable: Communication, Time Management, Leadership

## Projects

### Disaster Relief Management System

February 2025 - April 2025

- Built a modular Java application with optimized SQL database integration for efficient data handling
- Applied object-oriented principles to create clean, reusable code across victim, worker, and medical record modules
- Collaborated in a team setting using Git for version control and iterative development

### Museum Database

October 2024 - December 2024

- Collaborated and led a team in the development of a relational database schema for managing museum exhibits and collections
- Created SQL queries and interfaces for efficient record entry, updated, and searches using MySQL

### Count Down Timer App - Embedded Systems

October 2025

- Programmed a microcontroller using C and python to develop a real-time countdown application
- Gained experience with hardware interaction, driver functions, and debugging via applications such as RealTerm and MPLab

### Flight Reservation System - Java Application

October 2025 - December 2025

- Designed and developed a Java-based booking system with a focus on user flow and data persistence
- Implemented user authentication, search functionality, and a booking management system
- Gained experience in structuring code for scalability and maintainability in a user facing application

## Extracurriculars

### VP of External Affairs

May 2024 - Present

### MISS UCalgary Club

- Collaborate with sponsors and cross-functional teams to secure funding and plan events
- Demonstrate strong remote coordination and communication skills in a hybrid settings

## Work Experience

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### Casual Lunch Supervisor

May 2023 - August 2025

Calgary Board of Education, Calgary, Alberta

- Monitored safety protocols and managed group dynamics in a fast-paced environment
- Communicated effectively with team members to ensure smooth daily operations

### Lead Teacher

May 2023 - July 2023

South Calgary IIm and Tarbiya Center, Calgary, Alberta

- Organized lessons plans and adapted content based on student progress for a class of 20
- Collaborate with parents and peers to align on educational goals and outcomes

## Volunteer Experience

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### Lead Volunteer (Womens Side)

March 2024 - Present

South Calgary IIm and Tarbiya Centre, Calgary, Alberta

- Organized and led events and workshops focusing on educational and personal development
- Taught students in group settings, adapting content to meet diverse learning needs and interests

### Volunteer

March 2023 - June 2023

Seton YMCA

- Child and Family team
- Assisted in activity planning and supervision, ensuring a safe and engaging environment
- Practiced clear communication with children, parents, and team members

## References

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References available upon request