

# Husaam Khan

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## AVAILABILITY

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- Available for a full-time position for 4, 8, 12, or 16 months starting May 2025.

## EDUCATION

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### Carleton University, Third Year

September 2022 - May 2027

*Honours in Computer Science: Software Engineering Stream, Minor in Statistics*

- Major GPA: 10.47/12
- Relevant Courses: Systems Programming, Object-Oriented Software Engineering, Abstract Data Types and Algorithms, Software Engineering, Fundamentals of Web Applications, Computer Science I, Computer Science II

## TECHNICAL SKILLS

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**Programming** | C, C++, C#, Java, Python, Javascript, SQL, R, React, NodeJS, ExpressJS, HTML, CSS, Axios, MongoDB/Mongoose

**Technical** | Software Design Patterns, Data Structures, Algorithms, Operating Systems, Object-Oriented Programming, Full Stack Development, Unified Modelling Language, Relational Databases, NoSQL Databases, REST API

**Platforms** | Linux, Windows, MacOS

**Tools** | Git, Github, Power BI, NPM, GCC, GDB, Valgrind, VirtualBox, MySQL Workbench

**Languages** | English, Urdu, and Hindi

## PROJECTS

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### Programming Language Interpreter

*Chip-8 Emulator*

C++ | SDL | Binary Operations

- Created the interpreter using C++, allowing modern computers to run programs that were created for the Chip-8
- Programmed the decoder, memory, and standard Chip-8 processor instructions to receive binary operation codes from ROM files and perform the correct processes.
- Implemented the graphics by using the SDL library, allowing the interpreter to receive binary sprites from ROM files in order to render textures.

### Twitter Clone

*Full-stack social media website*

Javascript | React | MySQL | Express.js | Rest API | CSS | Axios | Multer

- Creating a demonstration of a full-stack social media website that exhibits core features from Twitter/X.
- Using Javascript, CSS, and JSX in order to produce a robust web application that effectively demonstrates excellent full-stack development skills.
- Using React to create interactive, visually appealing, and dynamic user interfaces for the application.
- Implementing the Rest API with ExpressJS, allowing for communication between server and client.
- Utilizing Axios to send HTTP requests from the client to the server.
- Creating the database using MySQL through MySQL Workbench to store and retrieve user information.

### Full-Stack Art Gallery Website

*Full-stack social media website for artists*

Javascript | Rest API | CSS | Mongoose | ExpressJS

- Coded the application using Pug, CSS, and JavaScript, producing a dynamic, visually appealing, and interactive website that displays well-organized elements such as images, text, buttons, etc.
- Coded the Rest API using ExpressJS, allowing data to be transferred between the server and the client
- Created the database using Mongoose, effectively storing user information and art pieces posted by artists

## WORK EXPERIENCE

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### Data Conversion Specialist (Co-op)

May 2024 - August 2024

*Department of National Defence, Hull, QC*

- Fully digitizing Canadian military technical publications so that they may be used for enterprise resource planning through SAP
- Extracting data from technical publications to convert them to data modules in accordance with the S1000D specification
- Using VizEx Edit to hotspot equipment figures from military technical publications to make them interactive, facilitating the use of SAP

### Sales Associate

September 2023 - Present

*Kernels, Ottawa, ON*

- Performed opening and closing procedures, including counting cash, balancing tills, food station preparation, and ensuring the restaurant's readiness for the following day to facilitate the day-to-day procedures
- Worked in a team to handle and fulfill customers' orders while providing quality customer service
- Maintained restaurant inventory by preparing and replenishing stock as needed, facilitating a continuous flow of service

### Fast Food Worker

July 2021 - September 2023

*Mr. Pretzels, Ottawa, ON*

- Opened and closed the restaurant by performing tasks such as counting cash, balancing tills, and cleaning and preparing food stations to ensure the proper execution of daily operations
- Processed orders in person and over the phone by taking orders and collecting payments, contributing to positive interactions with customers
- Efficiently fulfilled orders as a team by baking and dressing food to ensure customer satisfaction