





# HAMZAH JARRAR

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## TECHNICAL SKILLS:

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**Programming Languages:** C#, Java, C, Python, CSS, JavaScript, HTML, R

**Operating Systems:** Linux, Windows

**Development Tools:** Eclipse, VS Code, React, Git, GitLab, GitHub, Virtual Studio

**Design & Media Tools:** Blender, Unity, Godot

**Other:** Agile Methods, Documentation, Object-Oriented-Programming

## PERSONAL PROJECTS:

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### Java Programming Projects | Feb 2024 - present

- Developed Java applications including a turn-based battle game and a mark reporting system with file input/output
- Strengthened object-oriented programming skills by designing classes, managing state, and improving program structure and logic

### C# Programming Projects | Feb 2023 - present

- Developed multiple C# applications using Visual Studio, including a calculator and a personal address book
- Applied object-oriented programming principles while building interactive user interfaces with Windows Forms

### Minesweeper | May 2025 - Jun 2025

- Developed a Java Minesweeper game in Eclipse with a graphical interface
- Used object-oriented programming to structure game logic and user interaction

### Portfolio | Sep 2025 - present

- Designed and built a personal portfolio website to showcase my resume and projects
- Used HTML, CSS, and JavaScript to create a responsive and visually structured layout

## EDUCATION:

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### Bachelor of Computing, Software Engineering (Co-op) | 2025 - present

University of Guelph, Guelph, ON

- Maintaining an 89% average

Key Academic Projects:

DNA Recording Management System (2025) - Designed and implemented a C-based DNA record management system using structs, pointers, and dynamic memory allocation to parse, validate, and analyze CSV data, supporting record insertion, deletion, and statistical analysis with in-depth error handling and memory safety

## WORK EXPERIENCE:

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### Waiter/Cashier, Seau de Crabe | Jun 2023 - Aug 2023

- Worked effectively in a fast-paced environment, managing multiple tasks simultaneously while maintaining accuracy and attention to detail
- Communicated clearly with customers and team members to resolve issues efficiently and ensure reliable, high-quality service