

# Zoha Qamar

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## EDUCATION

### University of Toronto

2025

*Honours Bachelor of Science (HBSc): Computer Science & Statistics*

- **Relevant Courses:** Software Design, Theory of Computation, Data Structures and Analysis, Artificial Intelligence, Machine Learning, Databases, Probability and Statistics II, Web Culture and Design, Human-Computer Interaction and Communication, Fundamentals of User Interface, Immersive Environment Design, UX Design - Prototyping and Evaluation

## EXPERIENCE

### Application Programmer Intern

May 2023 - August 2024

*Ministry of Education*

*Toronto, ON*

- Developed and tested applications in an **Agile development environment**, debugging and troubleshooting to ensure reliability and functionality.
- Automated accessibility compliance testing by integrating tools like **WAVE**, **JAWS**, and **NVDA**, ensuring adherence to **WCAG 2.0 guidelines**.
- Authored **10+ detailed technical documents** for workflows and testing protocols, streamlining onboarding and improving knowledge transfer.
- Logged and tracked **40+ defects** using ALM software, collaborating with developers to resolve **95%** of issues pre-deployment and reducing defect resolution time.

### Director of Social Media

July 2022 - April 2023

*Women in Science and Computing (WiSC)*

*Mississauga, ON*

- Increased social media engagement by **30%** through a strategic content calendar for platforms including Instagram, LinkedIn, and Discord.
- Collaborated with the marketing team to maintain brand consistency and crafted a robust community engagement strategy.
- Streamlined communications by integrating inquiries via multiple platforms into a centralized response system, cutting response time by **50%**.

## PROJECTS

### Personal Portfolio Website | *React, Tailwind CSS, React Router, GitHub Pages*

- Interactive, responsive website with a custom pixel-art desk UI linking to GitHub, LinkedIn, resume pdf, and custom pages, showcasing frontend development, routing, responsive design, and deployment

### Three Musketeers | *Java, JavaFX, JUnit testing*

- GUI board game using the MVC software design pattern and core OOP principles: abstraction, encapsulation, inheritance, and polymorphism

### Onitama | *Python, Pygame, Pytest*

- Interactive GUI board game with user-controlled avatars, implementing abstract data types and OOP concepts

### Meepo is You | *Python, Pygame, Pytest*

- User-controlled GUI game using Object-Oriented programming, abstract data types, encapsulation, recursion

### Hangman | *Python*

- Word guessing game

## TECHNICAL SKILLS

**Languages:** Python, Java, C, R, Bash, Shell, SQL, PostgreSQL, VBScript, Assembly, JavaScript

**Web & UI:** HTML, CSS, UI/UX Design, Adobe XD, Figma, React

**Frameworks & Libraries:** JavaFX, Pytest, JUnit, NumPy, Pandas, Matplotlib, RESTful APIs

**Dev Tools:** Git, GitHub, VS Code, PyCharm, Eclipse, Jira, ALM, Linux

**Interests:** Software Development, Machine Learning, Artificial Intelligence