

# Maya Saltzman

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## TECHNICAL SKILLS

**Languages and Frameworks:** C, SQL, Java, Python, HTML/CSS, JavaScript, SQLite, ReactJS, JQuery

**Development Tools:** Visual Studio Code, Microsoft SQL Server Management Studio, Eclipse, Junit, Git, Jira, Docker, Linux

**Other:** Microsoft Office, Map Box, Slack, IBM Notes

## PROJECTS

### Personal Website | ReactJS, HTML/CSS 2023

- Conceptualized and developed a personalized website, showcasing technical skills and professional achievements.
- Utilized ReactJS to build a responsive and interactive user interface, ensuring seamless navigation and an engaging user experience.
- Implemented HTML and CSS to craft the website's structure and style, incorporating modern design principles for a visually appealing and user-friendly layout.

### Molecule Manipulation Library | C, Python, SQLite, HTML/CSS, JavaScript, JQuery 2023

- Developed a comprehensive full-stack web application facilitating user-friendly uploads of molecule data to a database and visualized the data as SVG images.
- Engineered the back-end library in C, seamlessly interfacing with Python code using SWIG, ensuring efficient and smooth data processing.
- Programmed the web server for the application using Python, which interacted with a SQLite database to optimize data retrieval and storage.
- Innovatively designed and implemented a dynamic user interface using JQuery, empowering users to manipulate molecular data effectively.

### Tic Tac Toe Game Suite | Java 2022

- Developed dual versions of the classic Tic Tac Toe game, leveraging the Java Swing library to create an intuitive graphical user interface that enhanced the user experience.
- Demonstrated proficiency in software quality assurance by implementing unit testing using JUnit test cases.
- Applied advanced object-oriented programming principles showcasing a nuanced understanding of Java programming paradigms.

## EDUCATION

### University of Guelph Guelph, ON

*Bachelor of Computing, Computer Science Honors Co-op*

*September 2021- present*

- Dean's List Honors for all terms
- 85% overall average
- Courses: Object Oriented Programming, Data Structures, Algorithms, Operating Systems, Software Systems Development, Calculus, Discrete Math, and Linear Algebra

## LEADERSHIP EXPERIENCE

### Guelph Coding Community University of Guelph, Guelph, ON

*President*

*April 2023 – present*

- Effectively delegates roles and responsibilities among a seven-member team, fostering a collaborative environment and providing proactive support as needed.
- Spearheads the planning and execution of computing events, ensuring the delivery of engaging and informative experiences that contribute to the overall student community.
- Acts as a prominent representative for Bachelor of Computing students at open houses showcasing the program's strengths and fostering connections within the broader academic community.

*Director of Events*

*April 2022 – April 2023*

- Planned and executed computing events, including programming competitions, speaker talks, workshops, study support initiatives, and social engagements.
- Fostered a dynamic environment providing valuable opportunities for students to enhance their skills and network.
- Collaborated closely with a team of seven executive members to ensure seamless coordination and successful implementation of events.

## **WORK EXPERIENCE**

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**Kenna**

**Mississauga, ON**

*Data Management Assistant Co-op*

*April 2023 – December 2023*

- Conducted rigorous QA and software testing across a suite of five applications, achieving a 99% accuracy rate and ensuring the delivery of high-quality software products.
- Updated a comprehensive database dictionary using SQL queries, enhancing efficiency in database management and development processes.
- Managed and monitored Jira tickets to oversee the resolution of application bugs, ensuring a swift and effective bug-fixing process.
- Optimized a SQL codebase, proposing and implementing edits that resulted in a reduction in code redundancy, enhancing overall system maintainability.