

Maya Saltzman

(416) 276-0559 | saltmam@uoguelph.ca | [linkedin/maya-saltzman](https://www.linkedin.com/in/maya-saltzman) | <https://github.com/mayasaltzman>

TECHNICAL SKILLS

Languages and Frameworks: C, SQL, JavaScript, HTML/CSS, Java, Python, SQLite, Lotus Script, Fortran

Frameworks: ReactJS, NodeJS, JQuery, Tailwind CSS

Development Tools: Visual Studio Code, Microsoft SQL Server Management Studio, Jira, GitHub, Bitbucket, Jenkins, Command Line Tools, Valgrind, Eclipse, Junit, Docker, Linux, Map Box, IBM Notes

Other: Microsoft Office, Slack, Trello

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

Bachelor of Computing, Computer Science Honors Co-op September 2021- present

University of Guelph, Guelph, ON

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

LEADERSHIP EXPERIENCE

President April 2023 – present

Guelph Coding Community, University of Guelph, Guelph, ON

- 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.
- Uses Trello Boards to monitor the teams progress and to manage projects.

Director of Events

April 2022 – April 2023

Guelph Coding Community, University of Guelph, Guelph, ON

- 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

Introduction to Programming Teaching Assistant

September 2024 – present

University of Guelph, Guelph, ON

- Assisting a Sessional Lecturer in teaching students the fundamental concepts of C programming.
- Conducts three weekly lab sections and two weekly office hours to assist students with assignments.
- Grades assignments using an automated test harness.
- Communicates effectively with students through an online ticketing system to resolve issues.

Introduction to Cooperative Education Grader

May 2024 – August 2024

University of Guelph, Guelph, ON

- Evaluated over 50 student resumes, cover letters, and practice interviews for the Introduction to Co-op course.
- Delivered constructive feedback to enhance students' application skills and preparedness.
- Collaborated with fellow TAs and Co-op advisors to facilitate a seamless grading process.

Application Developer Co-op

April 2024 – August 2024

Kenna, Mississauga, ON

- Lead a web application migration from legacy LotusScript to modern ReactJS and NodeJS, increasing performance and usability.
- Developed and designed a new web application enabling seamless DocuSign integration for e-documents, to significantly boost operational efficiency.
- Implemented over 15 SQL backend stored procedures for annual program rewards calculators, streamlining data processing and visualization.
- Transitioned front-end LotusScript code into a SQL stored procedure, simplifying development and ensuring scalability for future developers.
- Operated within an Agile development environment, utilizing Jira for ticket tracking, Bit Bucket for version control and Jenkins for deployment.

Data Management Assistant Co-op

April 2023 – December 2023

Kenna, Mississauga, ON

- 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.