

# Rosa Chen

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## EDUCATION

### McMaster University

Sept 2020 - Present

*Bachelor of Engineering, Software Engineering*

*Hamilton, ON*

- Completed **level 3** of 4 in a 4-year Software Engineering Co-Op program.

Relevant Courses: Data Structures and Algorithms, Object Oriented Programming, Linear Optimization, Software Requirements and Security Testing, Software Design, Operating Systems

## WORK EXPERIENCE

### Instructional Assistant Intern

Sept 2024 - Present

*McMaster University, Hamilton ON*

- Facilitate weekly laboratory sessions for over 300 first year engineering students, enhancing their understanding of **engineering design, communication, graphic design, computation, and material sciences** through hands-on experiential learning.
- Lead and supervise a team of **28 Teaching Assistants** to coordinate training sessions, distribute tasks, and manage the organization of online course materials on Avenue to Learn to ensure smooth operation of the course.

### Community Advisor

Jul 2022 - April 2024

*McMaster University, Hamilton ON*

- Act as a mentor to **support 33 first-year students** in residence, providing resources and **one-on-one academic/personal support** to promote a positive living environment.
- Build community relationships through **creative programming** and events that align with McMaster University's first-year curriculum.
- Manage administrative duties such as incident and coverage reporting, risk mitigation, and conflict management to ensure a positive, safe, and inclusive living experience for first-year students.

### Website Developer

June 2022 - Sept 2022

*TUEX Education Foundation, Vancouver, BC*

- Developed a **responsive 12-page** website prototype in Webflow for TUEX Education Foundation using **HTML, CSS, and JavaScript** elements to ensure optimal user experience on mobile and personal devices.
- Collaborated closely with the Product and Operations Manager to translate the organization's brand identity to an online platform.
- Implemented **custom interactive elements, animations, user-friendly navigation, eCommerce store, and blog**, ensuring that elements created would be easily open for extension.

## PROJECTS

### Tenzies

August 2023

- Built a dice rolling game using **HTML, CSS, JavaScript**, and **React JS** to demonstrate the use of components, conditional rendering, and the usage of hooks to manage state and side effects
- Referenced a Figma file to incorporate an easy-to-use UI, ensuring a seamless game experience.

### Island Generator

- Constructed an island made from polygons using a **mesh generator in Java** to demonstrate object-oriented programming and **SOLID design principles** to create well-structured and extendable code.
- Implemented **JUnit testing**, and **version control** within a collaborative team of 3 to enhance project management, test coverage, and code quality.
- Seamlessly integrated **Dijkstra's algorithm** to efficiently determine the shortest path between two cities represented as vertices on the island.

## TECHNICAL SKILLS

**Programming Skills:** Python, Java, C, HTML/CSS, JavaScript, ReactJS, SQL, MATLAB

**Tools:** Git, GitHub, Shell/Bash Scripting, Maven, Junit