

Rachelle DeMan

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Education

- McMaster University** | Bachelor of Science in Computer Science, Hamilton, ON Sept 2021 – April 2025
- Deans' Honour List with a **4.0** GPA.
 - Excelled at courses such as Data Structures and Algorithms, Principles of Programming, and Software Development.



Experience

- Software Developer Intern** | 1Password, Toronto, ON May 2023 – August 2023
- Utilized TypeScript, and React to improve **accessibility and user experience** for data reports.
 - Assisted in the successful launch of new analytic features within an Agile work environment.
- Technical Executive** | DeltaHacks, Hamilton, ON Nov 2022 – Present
- Created frontend for a mobile-responsive application portal and landing page utilizing React, TypeScript, Nextjs, and Tailwind CSS within an **Agile work environment**.
 - Worked in team of 12 developers to build MLH web applications used by over **1000 participants** worldwide.
 - Independently responsible for applicant status, QR profile scanning and QR linking frontend.

Hackathons

- Consensus**  | Hack the North | *Python, Matplotlib, sklearn, numpy, pandas* Sept 2022
- Conducted analysis on product reviews using **machine learning** to generate a summarized user opinion for optimizing quality assessments providing invaluable information to consumers and vendors.
 - Utilized k-means clustering and Co:here to group reviews by their semantic relevance for evaluation accuracy.
 - Used MatPlotLib to plot user reviews in generated semantic groups for clean user interaction.
- HackDex**  | StormHacks | *JavaScript, React, React Router, SCSS, HTML, CSS* Feb 2022
- Received **Audience Choice Award** for inventiveness and practicality.
 - Won first out of 89 projects for Dream Big and Create More Cheers with AB InBev.
 - Led front-end development for guided hackathon project platform using React and SCSS for user accessibility.

Passion Projects

- Crochet Blog**  | *JavaScript, React, CSS, HTML* June 2022 – Present
- Developed a web blog to document and share crochet patterns.
 - Used Styled-components library to create flexible and reusable CSS for mobile compatibility.
 - Produced graphs using Recharts based on data set information to display time investments and project difficulty.
- Cave Generation**  | *Python, Godot, GDScript* May 2022 – September 2022
- **Procedurally generated** levels with varied shapes, platforms, pathways, enemies, collectables, and decor.
 - Made use of physics bodies and the **A* pathfinding algorithm** to randomize room locations and tunnels for replayability and unpredictability.
 - **Optimized full generation** to enable over 100 room completions in **under 4 seconds**.
- Pathfinder Ranger** | Girl Guides of Canada, Oshawa, ON Sept 2015 – Sept 2021
- Earned team award in 2016, 2017, 2018, and 2019 as a result of planning and managing 1-3 day long events with **over 150 attendees** in Girl Guides.
 - Received the Trailblazer Leadership award, the highest reward a ranger can receive, through **leading community service projects**, and substantial volunteering.
 - Awarded Cookie All Stars in 2016, 2017, 2018, and 2019 for **extensive individual fundraising** of over 80 cases (960+ boxes), with personal goal of 15% increase per year.

Technical Skills

Languages: Python, JavaScript, Java, TypeScript, HTML, CSS, SQL, GDScript
Tools: Visual Studio Code, PyCharm, Godot, Git, GitHub, Figma
Libraries/Frameworks: React, Tailwind CSS, NextJS, daisyUI, Matplotlib