

# Rachelle DeMan

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## Technical Skills

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**Languages:** Python, TypeScript/Javascript, HTML, CSS, GDScript, SQL, C, Java

**Tools:** GitLab, Godot, Git, GitHub, Figma

**Libraries/Frameworks:** React, Tailwind CSS, Next.js, Matplotlib

## Experience

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**Developer Intern** | 1Password, Toronto, ON | *TypeScript, CSS, GitLab* May 2023 – Aug 2023

- Utilized **TypeScript**, and React to improve **accessibility** and user experience for data reports.
- Assisted in launch of a redesigned Activity Log which was used by over **100,000 businesses worldwide** such as IBM, Slack, and GitLab.
- Identified, reported, and implemented fixes for internal documentation, general bugs, and potential weak points.
- Coordinated with Product Managers, Engineers, and Designers to outline goals in an **Agile work environment**.

**Technical Executive (Volunteer)** | DeltaHacks, Hamilton, ON | *TypeScript, Next.js* Nov 2022 – Present


- Entirely rebuilt **React** application portal and landing page frontend for better mobile-responsivity using **TypeScript, Next.js**, and **Tailwind CSS**.
- Led creation of for applicant status, QR profile scanning and QR linking frontend used by over **1000 participants**.

## Hackathons

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**Dash**  | Hack the North | *TypeScript, React, Tailwind CSS*, Sept 2023

- Created a customize dashboard to assemble online resources into one location. Includes functioning cards for location based weather, recent email contents, GitHub activity for a repo, stock information, calendar events, news, and time.
- Built a widget to display stock information through use of Yahoo-Finance2 **API** to gather current data.
- Spearheaded creation of movable and resizing widgets using React-Grid-Layout.

**Consensus**  | Hack the North | *Python, Matplotlib, sklearn, numpy, pandas* Sept 2022

- Analyzed product reviews using **machine learning** to generate a summarized user opinion of the quality and mechanics of products on Amazon.
- Utilized k-means clustering and Co:here to group reviews by their semantic relevance for increased accuracy.
- Created graphs of user reviews from AI generated topic groups using Co:here and Matplotlib.

**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 educational challenge 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

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**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 to display time investments and project difficulty.

**Cave Generation**  | *Python, Godot, GDScript* May 2022 – Sept 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 managing events with **over 150 attendees**.
- Received the Trailblazer Leadership award, the highest reward a ranger can receive, through **leading community service projects**, and substantial volunteering.

## Education

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**McMaster University** | Bachelor of Science in Computer Science, Hamilton, ON Sept 2021 – Apr 2025

- Deans' Honour List with a **4.0 GPA**.
- Excelled at courses such as Data Structures and Algorithms, Principles of Programming, and Software Development.