

Rachelle DeMan

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Technical Skills

Languages: Python, TypeScript/Javascript, HTML, CSS, GDScript, SQL

Tools: GitLab, Godot, Git, GitHub, Figma

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

Experience


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

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

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 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.

Education

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.