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

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 **O** | 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.

StockPile Ø | DeltaHacks 8 | React Native, JavaScript

Jan 2022

- Won first out of 92 projects for **best use of Google Cloud**.
- Created stock market simulator to aid beginners in comprehending stocks in a highly interactive environment.
- Formulated plans to utilize GCP Recommendations AI to suggest articles based on user actions, and GCP App Engine to host the frontend.

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 – Present

- 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, Figma

Libraries/Frameworks: React, Tailwind, Styled-components, Headless UI, daisyUI, cv2, Matplotlib