Rachelle DeMan

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EDUCATION

McMaster University | Bachelor of Science in Computer Science, Hamilton, ON   Sept 2021 – Present
- Achieved Deans' Honour List with 3.9/4.0 GPA
- Excelled at courses such as Data Structures and Algorithms, Principles of Programming, Development Basics, and Computer Architecture

PROJECTS

Consensus | Hack the North | *Python, Matplotlib, sklearn, numpy, pandas*   Sept 2022
- Conducted analysis on product reviews using ML to generate a summarized user opinion
- Utilized k-means clustering and Co:here to group reviews by their semantic meaning
- Used MatPlotLib to plot user reviews in generated semantic groups

Crochet Blog | *JavaScript, React, CSS, HTML*   June 2022 – Present
- Developed a web blog to document crochet projects during free time
- Used Styled-components library to create flexible and reusable CSS for various screen sizes
- Built graphs using Recharts based on dataset information

Cave Generation | *Python, Godot, GDScript*   May 2022 – Present
- Procedurally generated dungeons with varied shapes, platforms, room connections, enemies, collectables, and decor
- Made use of physics bodies and the A* pathfinding algorithm to randomize room locations and tunnels
- Optimized for full generation of over 100 rooms in under 5 seconds

HackDex | StormHacks | *Javascript, React, React Router, SCSS, HTML, CSS*   Feb 2022
- Won first out of 89 for Dream Big and Create More Cheers with AB InBev, and received the Audience Choice Award
- With React and SCSS created a platform for hackathons to direct novice hackers through guided project
- Implemented fully functioning Discord login with Discord OAuth

StockPile | DeltaHacks 8 | *React Native, JavaScript*   Jan 2022
- Won first out of 92 projects for best use of Google Cloud
- Created an app to simulate the stock market with simplifications to accommodate beginners
- Made plans to use GCP Recommendations AI to recommend articles, and GCP App Engine to host the frontend

VOLUNTEER AND WORK EXPERIENCE

Technical Executive | Deltahacks, Hamilton, ON   Nov. 2022 – Present
- Built a landing page using React and Tailwind in a 3 developer team
- Utilized Headless UI to create smooth disclosures and tabs

Supermarket Cashier | FreshCo, Courtice, ON   Dec. 2020 – July 2021
- Managed and assisted customers efficiently by answering inquiries and directing lanes
- Aided distribution of workload among teams of 2-6 to ensure task completion and customer satisfaction

GIRL GUIDE AWARDS

Team Award | Earned in 2016, 2017, 2018, and 2019
Received as a result of planning and managing 1-3 day long events with over 100 attendees in Girl Guides.

Trailblazer Leadership Award | Earned in 2021
The highest reward a ranger can receive, attained through leading a community service project, substantial volunteering and full program completion.

Cookie All Stars | Earned in 2016, 2017, 2018, and 2019
Awarded for extensive individual fundraising of over 80 cases (960+ boxes), with personal goal of 15% increase per year.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, GDScript
Tools: Visual Studio Code, PyCharm, Godot, GitHub, Co:here, Figma
Libraries/Frameworks: React, Tailwind, Styled-components, Headless UI, cv2, Matplotlib
Communication: English, French