

# Rachelle DeMan

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## EDUCATION

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

## PROJECTS

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- 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 EXPERIENCE

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- Technical Executive** | DeltaHacks, Hamilton, ON Nov. 2022 – Present
- Lead creation of front-end pages for applications, reservations, and acceptances
  - Built a landing page using React and Tailwind in a 3 developer team
  - Utilized Headless UI to create smooth disclosures and tabs
  - Single-handedly created user interface for QR scanning and linking with daisyUI modals
  - Enforced TypeScript to ensure type safe development practices

## GIRL GUIDE AWARDS

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- 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

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