

# YOUSSEF SAMAAAN

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## EDUCATION

### McGill University

Bachelor of Computer science, GPA 3.75

Sep 2021 - Dec 2024 (expected)

- Courses: Intro to computer science (OOP), Intro to software systems, Programming lang & paradigms (functional programming), Software Design, Algorithms and data structures, Probability, Calculus3, Linear algebra, and Discrete Structures.

### TAV College

Pure and applied science DEC

Sep 2019 - Jun 2021

- R score 32.
- Placed on the Dean's list all 4 semesters.

## SKILLS

Programming languages: Python, Java, Ocaml, MATLAB, C/C++, Bash, Unix/Linux, Git, HTML, CSS, JavaScript, SQL.

Frameworks/Libraries: Django, React, Node.js, Express.js, Bootstrap, Tailwind.

## WORK EXPERIENCE

Intern Data Science Analyst and Programmer, DermBiont - Python, c++, R, SQL

May 2022 - Aug 2022

- Helped in the migration of the company's data from Dropbox to Sharepoint and from eLab to Benchling by writing functions to call APIs and by writing scripts to check if all the files were transferred.
- Wrote a program that renames files and folders and formats the data inside the HTML files so that the hyperlinks work.
- Wrote multiple scripts that found more than 25% differences between the values in the excel file and the data in the database then updated the values in the database.
- Wrote a Socket program so that the classifier files will have to be uploaded only once rather than having to re-upload all the classification files for every file that needs to be classified.
- Wrote a program that takes in an input file with multiple dictionary files, then parses the data and produces a report while also classifying the information into different sheets that corresponded to the dictionary files.

## PROJECTS

### Movies Watched

- Created a website that displayed the movies, shows, and anime that I enjoyed watching.
- Built it using React, HTML, and CSS and uploaded it to Heroku.

### Risk-Free Stock Trading Website

- Created a web app that lets people test out their trading strategy or just see if they want to invest in the stock market for free.
- Used stock API from Finnhub to get real-time stock prices.
- Created the website using Django and uploaded it on Heroku.

### Event Management System

- Designed a Festival Management System that allows a person to create Festivals, Concerts, Workshops, Galas, Screenings, and Coming soon Events.
- Added extra functionality such as calculating profit, and filtering.

### Personal website

- Built this website to showcase my projects, skills, education, and experience.
- This website is also responsive to all devices and has a dark mode.

### Solar System

- Programmed a realistic solar system.
- Used the velocities and the force of each entity onto the other to calculate their new position.
- Used a non-elastic simulation for when two entities collide with each other.
- Different simulations with different starting parameters were created if you wanted to try them.

## OTHER

Languages: English, French, Arabic

Hobbies: Traveling, League of Legends, Drawing, Football (soccer)