

AANSH KOTIAN

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EDUCATION

Bachelor of Engineering

McMaster University - Software Engineering

Sep 2021- May 2025

- Overall Gpa: 3.7
- Dean's Honours' List 2021-2022

Relevant Courses: 20C3-Data Structures and Algorithms, 20P3-Object-Oriented Programming, 2XC3-Software Engineering Practice and Experience Development Basics, 2DA4-Digital Systems and Interfacing

WORK EXPERIENCE

Lifeguard and Aquatics Instructor

Oct 2020 - Jan 2021

- Developed teamwork and leadership skills through the rigorous drilling of life-saving rescues performed in squads
- Alertly supervised Aaniin pool for over **300+** clients, meticulous attention to detail was a necessity as a lifeguard
- Created lesson plans and taught **30+** children the fundamentals of swimming, this experience honed my organisational and communication skills

PROJECTS

[Personal Website](#) | [Code](#)

Nov 2022 - Dec 2022

- Employed **Bootstrap**, **Javascript**, **HTML**, and **CSS** to conceptualize the front and back end of my personal website
- Fostered a creative outlet to display projects and experiences, while simultaneously refining understanding of **HTML** and **CSS**
- Glimpsed into front-end website development, through creating templates using **HTML**, as well as styling them with **CSS**

["Student Post" Webapp](#) | [Code](#)

Oct 2022 - Nov 2022

- Applied **Python**, **HTML**, **CSS**, **Javascript** and employed **Flask** API to create the front and back end of the website
- **Improved time efficiency by 15%** and **organization by 20%**
- Implemented **Python** to create user, notes and reminder classes, structure access of URL routes, and manage logins
- To query and manipulate databases **SQL** was employed
- Utilized **HTML** to create templates and a navigation bar and **CSS** to style them
- Designed **POST** forms and functions implementing **GET** requests to store and deposit user login and sign-up data
- Utilized **Javascript** to create a dynamic calendar allowing users to set events
- deployed this dynamic webapp using **Heroku**

["Get a Grip"](#) | [Code](#)

Oct 2020-Dec 2021

- Designed functions in **Python** in order to control and manipulate a robotic arm in the **QLabs virtual environment**
- Distributed tasks efficiently as well as effectively led my sub-team in-order to accomplish goals in a punctual manner
- Reiterated through common concepts in **Python**, creating functions, and classes, nested loops
- Operated in a team to troubleshoot and locate bugs in created code

EXTRACURRICULAR EXPERIENCE

McMaster Rocketry Team

Sep 2022- Present

- Currently on the McMaster rocketry team aiding with the design of propulsion systems for a rocket
- Conceptualized schematics for propulsion systems of a rocket
- Collaborate and communicate as a team in order to advance group ideas and goals

SKILLS & INTERESTS

Programming Languages: Python, Java, HTML, CSS, C, Javascript, Bash, Verilog

Frameworks: Flask, React.js, Node.js, Bootstrap

Developer Tools: Git, Github, Git Bash, Github Pages, VS Code, Jupyter Notebook, PyCharm, IntelliJ, Linux, Heroku, QLABS

Interests: Programming, Soccer, Badminton, Swimming, Cooking

