

# Harsh Upadhyay

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## EDUCATION

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### McMaster University – Computer Science

Hamilton, ON

*Candidate for Bachelors of Honors Computer Science (co-op)*

*Expected Graduation 2026*

- **Awards:** Presidents entrance scholarship valued at \$5000 for incoming students with above an 95% average in high school

## PROFESSIONAL EXPERIENCE

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### Sciencious UAE

Remote

*Website Developer*

*February 2022 – June 2022*

- Led the design and deployment of the Sciencious UAE website, integrating robust backend solutions with sleek frontend design.
- Engineered a responsive user interface employing HTML, CSS, and JavaScript, leveraging frameworks like Bootstrap to ensure cross-platform compatibility and fluid interaction.
- Utilized agile methods, enhancing features and performance while adapting to emerging web tech for optimal user engagement.

### Comet

Remote

*Computer programmer*

*February 2022 – May 2022*

- Conducted in-depth UI/UX analyses during software testing, meticulously documenting bugs, results, and concerns, facilitating iterative enhancements.
- Engaged in structured user testing sessions as per Head Developer's directives, providing critical feedback to augment product development and refine iterative cycles.
- Collaborated cross-departmentally with engineers, devising robust test plans and strategic approaches for effective product development.

### Inspire Your Future

Remote

*Social Media Content Manager*

*December 2021 – February 2022*

- Manager for Inspire Your Future, a small non-profit startup dedicated to inspiring students through engaging and interactive online talks.
- Led a team of 3 professionals dedicated to social media-driven outreach and the development of innovative marketing approaches, resulting in significant improvements in engagement and support.
- Crafted tailored content and effectively promoted the organization's mission, leading to a notable increase in online engagement, with an average of over 3,000 views per post.

## PERSONAL PROJECTS

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### [Personal Portfolio Website](#) | *HTML, CSS, Javascript, NextJS, Snipper API, EmailJS*

*Dec 2023*

- Developed a personalized portfolio website using **NEXT.js**, showcasing expertise, projects, and accomplishments.
- Designed an engaging and responsive UI with **HTML**, **Tailwind CSS**, and **Framer Motion** for enhanced user experience.
- Implemented **JavaScript** for interactive features and dynamic content, boosting user engagement.
- Integrated **EmailJS** for seamless communication and efficient handling of inquiries.
- Employed industry-standard best practices to **optimize performance** and ensure **cross-browser compatibility**.

### [EchoSphere](#) | *Python, speech\_recognition, BeautifulSoup*

*Nov. 2023*

- Developed EchoSphere, a **Python**-based desktop assistant leveraging voice recognition using the **speech\_recognition** module and **multiple APIs** for automation, web search, system control, and utility functions, providing an interactive user experience.
- Implemented features including voice-controlled automation for YouTube, applications, and Whatsapp, along with information retrieval from web sources like Google, YouTube, and Wikipedia, demonstrating proficiency in **Python**, API integration, and task automation.

### [Active Track](#) | *Python, Jupyter Notebook*

*Dec. 2023*

- Developed **Python** scripts for robust data handling, visualization, and machine learning model creation using accelerometer and gyroscope data, enabling precise classification of barbell exercises, and counting repetition.
- Utilized outlier detection techniques like **Chauvenet's Criterion**, advanced feature engineering, and predictive modeling with hyperparameter tuning, achieving a **high classification accuracy of 98.9**.
- Engineered **LowPassFilter**-based repetition counting function, optimizing settings for accurate repetition identification, showcasing technical proficiency in signal processing and algorithm development for fitness data analysis.

## TECHNICAL SKILLS

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- **Programming:** C/C++, Python, Java, JavaScript, Haskell, Elm, HTML5, CSS3, SQL, MongoDB, MATLAB
- **Frameworks:** React.js, Node.js, Express.js, Tailwind CSS, Email.js, Django, Flask, Matplotlib, DeepFace, Pandas, OpenAI API, Tensor Flow.
- **Developer Tools:** (IDE) VsCode, Replit, Eclipse (**Version Control**) GitHub, Git (**Additional**) Netlify, Docker, Cloudflare.
- **Additional Skills:** Microsoft Office Suite (Word, Excel, PowerPoint), Adobe Illustrator, Canva, Problem Solving, Project Management.