Soham Sasan

[soham.sasan13@gmail.com](mailto:soham.sasan13@gmail.com) | 647-530-2570 | <https://www.linkedin.com/in/soham-sasan-42988932a/>

# WORK EXPERIENCE

## Apple Inc. Brampton, ON

*Beta Tester May 2020 - Feb 2022*

 Generated comprehensive reports identifying and documenting software vulnerabilities in pre-release versions of iOS and iPadOS.

 Conducted systematic testing of new features and software improvements, ensuring optimal functionality before public release.

## UCMAS Canada Inc. Brampton, ON

*Instructor Sep 2018 - May 2022*

Managed weekly online classes for 20+ students aged 6-15, maintaining high engagement and participation rates. Developed and implemented personalized learning strategies through individual homework assessment sessions. Conducted both virtual and in-person student evaluations, tracking progress and adapting teaching methods appropriately.

# PROJECT EXPERIENCE

## International Center for Applied Systems Science for Sustainable Development Cambridge, ON

*Research Associate Feb 2023 - Present*

Co-authored research on a Ventricular Tachycardia early warning system using XGB Algorithm, demonstrating 6- 23% improvement in prediction metrics.

Contributing to ongoing research on autonomous weed control systems utilizing precision laser technology. Supporting development of sustainable and scalable solutions for agricultural and healthcare challenges.

## GitHub

*Experimental Web Development Site*

*Feb 2020 - Present*

 Built an experimental website for exploring multiple programming languages including HTML, CSS, JavaScript, Java, and Python.

 Experimenting with different programming languages to understand their strengths and optimal use cases.

 Currently developing interactive features like a Tic-Tac-Toe game to practice integrating Java and JavaScript elements.

 Integrating locally run Large Language Models (LLM's) for a more interactive user experience.

## Western University London, ON

*Western Mathematics Exposition Competition Dec 2022 - Feb 2023*

Conducted extensive research on limit theory and its practical applications across mathematical disciplines. Collaborated with team members to create a compelling visual presentation of complex mathematical topics.

# EDUCATION

## University of Waterloo Waterloo, Ontario

*Bachelor of Applied Science in Nanotechnology Engineering Graduation Date: Jun 2029*

## Brampton Christian School Caledon, Ontario

*Ontario Secondary School Diploma Graduation Date: Jun 2024*

# LEADERSHIP EXPERIENCE

## Society for Preservation of Healthy Environment and Ecology and Heritage of Agra Cambridge, ON

*Environmental Advocate May 2020 - May 2021*

Delivered keynote presentation on plastics and environmental impact in presence of Cambridge Mayor Kathryn McGarry.

 Engaged community members in environmental conservation efforts through public speaking and educational outreach.

# SKILLS & INTERESTS

**Skills:** Proficient in programming languages (Java, Python) using Eclipse IDE and PyCharm IDE, web technologies (HTML, CSS), technical tools (Microsoft Office, SolidWorks, MATLAB), and object-oriented programming principles.