Soham Sasan

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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.