

# Sarah Simionescu

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## Education

### Bachelor of Computer Science (Co-op)

Expected Apr. 2025

McMaster University

Hamilton, ON, CA

- Achieved a **4.0 GPA**.
- **Relevant Courses:** Data Structures and Algorithms, Software Development and Scientific Computing.
- **Awards:** The Bled Award for Women in Engineering, Eng Research Experience Award, Engineering Dean's Excellence and McMaster Award of Excellence.

## Experience

### Privacy Analyst and Technical Writer

May, 2022 – August, 2022

McMaster University, Department of Computing and Software

Hamilton, ON, CA

- Analyzed real-world **privacy** issues surrounding **machine learning** and image data to propose and develop technical solutions, and as a result, became the **co-author of a paper** pending publication.
- Conducted tests in Python using **Tensorflow** to understand and evaluate privacy-preserving algorithms.
- Designed and animated visuals to effectively explain and present complex research topics to researchers of different fields.

### Co-Owner and Entrepreneur

May, 2019 – Present

✉Bright Idea Films, Wedding Videography

Niagara Region, ON, CA

- Launched, managed and trained a team of 5 videographers demonstrating outstanding initiative and **leadership** skills.
- Attentively **communicated** with clients to **adapt and improve** services.
- In just one year, the business was **scaled from 0 to 5 figures in revenue** and is projected for 6 figures by the end of 2023.

## Projects

### Utility Preserved Face Anonymization with Differential Privacy Guarantee

May, 2022 – August, 2022

McMaster University, Department of Computing and Software

Hamilton, ON, CA

- Tested, authored and presented a cutting-edge **privacy-preserving machine learning algorithm** that enables researchers and businesses to secure private information in image data without sacrificing its utility in machine learning analyses.

### My Kumon Prize Pet Online | MERN Stack Web App

August, 2021 - August, 2022

✉github.com/sarahsimionescu/MyKumonPrizePetOnline

St.Catharines, ON, CA

- Initiated, designed and programmed a full **MERN-stack web app** used by over 100 students to motivate their learning, log their homework and receive prizes.
- Adapted the backend to **MDB serverless**.

## Volunteer Work

### Co-op Ambassador

Sep, 2022 – Present

✉McMaster Engineering Co-op and Career Services

Hamilton, ON, CA

### Pitching Workshop Leader

Sep, 2020 – Present

✉Nasa Space Apps Hackathon

Mississauga, ON, CA

### Coding and Pitching Workshop Leader

Feb, 2021

✉Hour of Code and DSBN Learning Week

Niagara, ON, CA

## Skills

**Programming Languages:** Python, Java, C, Haskell, JavaScript, C++, LaTeX, Bash Scripting, Elm, ARM Assembly

**Tools and Libraries:** Git, GitHub, TensorFlow, PyTorch, React, Express.js, Node.js, MongoDB, Pandas, NumPy

**Core Skills:** Marketing, Presenting, Pitching, Leadership, Teamwork, Technical Writing, LaTeX