

# Fabício Dos Santos

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## EDUCATION

### McGill University

*Bachelor of Science in Mathematics & Computer Science*

Montreal, QC, Canada

Sep 2020 – Dec 2023

- CGPA: 3.97/4.00
- Awards: James McGill Scholarship, Emily Ross Crawford Scholarship, Summer Undergraduate Research Award, Dean's Honour List

## EXPERIENCE

### Research Assistant

*MILA - Quebec AI Institute*

May 2023 – Aug 2023

Montreal, QC, Canada

- Worked on the use of Deep Learning to solve Partial Differential Equations
- Used JAX, Haiku and PyTorch to implement multiple Machine Learning models

### Intern

*French Consulate of São Paulo*

Sep 2017

São Paulo, SP, Brazil

- Conducted interviews for visa applications
- Designed templates for the Consulate's social media accounts
- Organized a competition to promote the teaching of the French language in Brazil

## EXTRACURRICULARS

### Volunteer

*World Organization of the Scout Movement*

2009 – 2019

São Paulo, SP, Brazil

- Collaborated in volunteering projects such as building a school in Ecuador for underprivileged kids
- Led a team of 8 people for 5 years in a competitive environment, winning several distinctions

## PROJECTS

### Research Project in Mathematics

- Conducted research on the connections between the areas of Group Theory and Formal Language Theory
- Wrote a survey paper on the topic, entitled *The word problem for groups and formal language theory*
- Presented the research project to two professors at McGill University

### Basic Operating System

*C, Bash, Git*

- Wrote a simple simulated OS in C supporting basic Shell commands, concurrency and memory management
- Implemented a Shell which supports running concurrent processes and multithreading
- Used demand paging to manage the memory of the OS

### Truth Table Generator

*JavaScript, HTML5, CSS, Git*

[Webpage](#)

- Developed a webpage to generate truth tables of propositional formulas
- Used JavaScript to write a parser for propositional logic and to evaluate a boolean function by creating its truth table

## SKILLS

**Languages** : Fluent English, French and Portuguese, Intermediate Spanish

**Programming** : Python, Java, C, JavaScript, HTML, CSS, MATLAB, OCaml, MIPS Assembly

**Libraries** : NumPy, Matplotlib, PyTorch, JAX, Haiku

**Technology** : Bash, Linux, Git, GitHub, LaTeX, VS Code