

# Stephan Motha

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## EDUCATION

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### University of Toronto

Expected 2023

*Honors Bachelor of Science (HBSc) - Computer Science*

- **CGPA:** 3.86/4.00
- **Relevant Coursework:** Software Design, Data Structures and Analysis, Systems Programming and Software Tools
- **Honors:** Recipient of University of Toronto's entrance scholarship and an admission average of 95% (2019), Recipient of University of Toronto Scholars scholarship for the top 700 University of Toronto Applicants (2019)

## EXPERIENCE

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### CAP Lab - University of Toronto

Toronto, Ontario

*Deep Learning Programmer*

May 2021 – August 2021

- Collaborated in a team to develop a neural network simulator to simulate language processing in Python and reduce lines of source code by ~4.5 times from a previous C implementation
- Worked extensively with NumPy and related libraries to vectorize matrix computations resulting in efficient feedforward/backpropagation algorithms and easily adaptable code

### University of Toronto

Toronto, Ontario

*Web Developer*

September 2020 – April 2021

- Developed and updated a web application using React focusing on the efficient transfer of program details into a brochure format to manage program modifications and visualizations effectively
- Implemented a web application that allows employers to create job offer letters in bulk, customized for each recipient to accelerate the hiring process

## PERSONAL PROJECTS

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### Price Analysis Web Scraper

Summer 2020

*Python*

- Extracted data such as product titles and prices (headphones) from a website using the beautiful soup library
- Interprets product prices and notifies user of dropping prices while tabulating the data for future analysis

### Social Media Manager Chrome Extension

Summer 2020

*HTML/CSS/JavaScript/JQuery/JSON*

- Allows users quick access to their favourite social media platforms and gathers them into one place using customizable user settings through local storage

### Discord Bot

Summer 2020

*Node.js*

- Uses discord.js to allow users to use lotteries, polls, manage deleted and edited messages and solve complex math problems efficiently using recursion and simple server commands in order to meet server needs

## EXTRA CURRICULARS

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### DEEP Summer Academy

Toronto, Ontario

*Student*

Summer 2018

- Strategically designed and developed full-stack web components in React and web-based games using JavaScript
- Used Python libraries to implement efficient solutions to a variety of computational physics problems

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, SQL, HTML, CSS, JavaScript, R, Assembly

**Technologies/Frameworks:** Node.js, Pandas, Matplotlib, NumPy, React, Bootstrap, Git, PostgreSQL