

# Stephan Motha

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## EDUCATION

### University of Toronto

Expected 2023

*Honors Bachelor of Science (HBS) - Computer Science, Mathematics Minor*

- **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

### CAP Lab - University of Toronto

Toronto, Ontario

*Deep Learning Programmer*

May 2021 – August 2021

- Collaborated in a team to develop a neural network framework 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
- Developed and integrated an automated testing system to assess the accuracy of the framework and avoid inconsistencies in various networks

### University of Toronto

Toronto, Ontario

*Full-Stack 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

### Price Analysis Web Scraper

Summer 2020

*Python*

- Extracted data such as product titles and prices (headphones) from a website using the BeautifulSoup 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 to meet server needs

## EXTRA CURRICULARS

### DEEP Summer Academy

Toronto, Ontario

*Student Developer*

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

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

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