Stephan Motha

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EDUCATION

University of Toronto **Expected 2023**

Honors Bachelor of Science (HBSc) - Computer Science, Mathematics Minor

- **CGPA**: 3.85/4.00
- **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**

Software Engineer Intern *May 2021 – Aug. 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 a **CI/CD** pipeline to assess the accuracy of the framework and avoid inconsistencies in various networks

AA&CC - University of Toronto **Toronto Ontario**

Full-Stack Web Developer *Sep. 2020 – Apr. 2021*

- Developed and updated a web application using **React** and **PHP** focusing on the efficient transfer of program details into a brochure format to manage program modifications and visualizations effectively
- Deployed a custom LCD Display application using **React**, **TypeScript** and **Firebase** used in waiting rooms across the department, increasing student engagement.

PROJECTS

Price Analysis Web Scraper

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

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

Pico Bot

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

LEADERSHIP EXPERIENCE

University of Toronto **Toronto, Ontario**

Mathematics Teaching Assistant *Sep. 2021 – Dec. 2021*

- Organized and led weekly tutorials for 70+ students to strengthen understanding of course concepts
- Graded course work and held office hours to address misconceptions and concerns about course content

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, HTML, CSS, JavaScript, PHP, R, Bash, Assembly, Racket, Haskell

Technologies/Frameworks: Git, React, Node.js, Express, MongoDB, NumPy, Docker, Bootstrap, MJML