

Stephan Motha

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EDUCATION

University of Toronto

Expected 2024

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

- **CGPA:** 3.85/4.00
- **Relevant Coursework:** Software Design, Data Structures and Analysis, Systems Programming and Software Tools

EXPERIENCE

HubSpot

Cambridge, Massachusetts

Incoming Software Engineer Intern

Aug. 2022 – Dec. 2022

Publicis Sapient

Toronto, Ontario

Incoming Software Engineer Intern

Jun. 2022 – Aug. 2022

CAP Lab

Toronto, Ontario

Software Developer

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

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

iSocial

HTML/CSS/JavaScript/JQuery

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

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

SKILLS

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

Technologies/Frameworks: Git, React, Node.js, Express, Django, MongoDB, Postman, Docker