

# Stephan Motha

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## EDUCATION

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### University of Toronto

Expected 2024

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

- **CGPA:** 3.87/4.00
- **Relevant Coursework:** Software Design, Data Structures and Analysis, Systems Programming and Software Tools

## EXPERIENCE

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### HubSpot

Cambridge, Massachusetts

*Incoming Software Engineer Intern*

*Aug. 2022 – Dec. 2022*

### PagerDuty

Toronto, Ontario

*Software Engineer Intern*

*May 2022 – present*

- Extended functionality of the intelligent alert grouping feature using **Elixir** to allow for a dynamic grouping time window based on inter-arrival time, increasing total grouped alerts across services

### 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

### 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

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### Google Developer Student Club Portal

*React/Express/MongoDB/Node/Docker*

- Developed a full-stack web application to streamline the application process for students and mentors to the GDSC community projects initiative, solving the bottleneck in application turnaround time

### Restify

*React/Django/SQLite*

- Deployed a fully functional social media platform allowing restaurants to build connections and network with like-minded businesses to better serve and satisfy customers

## SKILLS

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

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