

# Stephan Motha

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## EDUCATION

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### University of Toronto

Expected 2024

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

- **CGPA:** 3.88/4.00
- **Relevant Coursework:** Software Design, Data Structures and Analysis, Systems Programming and Software Tools

## EXPERIENCE

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### Salesforce

Indianapolis, Indiana

*Software Engineer Intern*

May 2023 – Aug. 2023

- Worked on the code builder team, building a web-based IDE, directly reducing the mean time to restore through aggregation of disparate data from various sources including **AWS**
- Developed a service in **Elixir** to maintain a **99.5%** uptime **SLA** by providing visibility and clarity into the state of cloud-based environments

### HubSpot

Cambridge, Massachusetts

*Software Engineer Intern*

Aug. 2022 – Dec. 2022

- Collaborated on the release of the user presets dashboard, giving customer admins extensive control of user groups, allowing default settings and custom views with a **49%** onboarding usage over one month
- Advanced the development of business units, a feature allowing customers a systematic and centralized mechanism to manage multiple brands using **React** and **TypeScript**

### PagerDuty

Toronto, Ontario

*Software Engineer Intern*

May 2022 – Aug. 2022

- Spearheaded the development of custom feature-based modals in **Ember**, contributing to a **68%** YoY growth in active customer event intelligence trials and supporting a product-led growth methodology
- Extended functionality of the intelligent alert grouping feature using **Elixir** and **Ruby** 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 calculus 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

## 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

## SKILLS

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**Languages:** Python, Java, C, Elixir, SQL, HTML, CSS, JavaScript, TypeScript, PHP, Ruby, Racket, Haskell

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