

# Kayman Brusse

<https://kaymanb.me>

kaymanbrusse@gmail.com

(647) 569-9472

## EDUCATION

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### Master of Science, Computer Science

University of Toronto

Sept. 2019 – May 2021

Toronto, ON

*Research Area: Theory of Distributed Computing*

### Bachelor of Science, Honours

University of Toronto; GPA: 3.80

Sept. 2014 – Apr. 2019

Toronto, ON

*Specialist in Computer Science (Theory), Major in Mathematics*

## EXPERIENCE

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### Graduate Student

University of Toronto - *LaTeX, Rust*

Sept. 2019 – May 2021

Toronto, ON

- Researched lower-bounds for asynchronous shared-memory systems, the results of which appeared at PODC 2021 (the top international conference for theory of distributed computing).

### Undergraduate Research Intern

University of Toronto - *Python, Pandas, Jupyter Notebook, MongoDB*

Summer 2018

Toronto, ON

- Developed a mathematical model to formalize the notion of “health” in online social networks.
- Collaborated with data scientists at VerticalScope Inc. to prototype a pipeline for automatically monitoring online forums based on community health.

### Software Engineer

Flipp Corporation - *Typescript, React.js/Redux, Ruby on Rails, SQL*

May 2017 - Apr. 2018

Toronto, ON

- Built and maintained a suite of tools for analysing and reporting data to Flipp’s merchant partners, including some of North America’s largest retailers.
- Re-designed both the front and backend of the reporting dashboard’s most popular data visualization, reducing load-times and allowing for the implementation of several new features.
- Took complete ownership of a legacy reporting project, adding urgent bug-fixes, and working with stakeholders across the entire organization to migrate users onto newer systems.
- Implemented the scheduling and failure recovery components of a report generation system, removing the need for developer intervention in the event of errors while increasing their visibility.

### Teaching Assistant

University of Toronto

Jan. 2017 - May 2021

Toronto, ON

- Lead tutorials for groups of ~20 students, giving instruction on topics including data structures, algorithm design and analysis, randomized algorithms, and formal logic.

### Software Engineer Intern

RBC Capital Markets - *Javascript, Java, SQL*

Summer 2016

Toronto, ON

- Developed a self-service web tool for automating data requests made by the Canadian ETF trading desk, saving 4+ hours of developer time per week.