

# Kayman Brusse

<https://kaymanb.me>

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(437) 345-2993

## EDUCATION

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### Master of Science, Computer Science

University of Toronto; GPA: 4.00

*Research Area: Theory of Distributed Computing*

Toronto, ON

Sept. 2019 – Apr. 2021 (Expected)

### Bachelor of Science, Honours

University of Toronto; GPA: 3.80

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

Toronto, ON

Sept. 2014 – Apr. 2019

## EXPERIENCE

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### Flipp Corporation

Software Engineer

Toronto, ON

May. 2017 - Apr. 2018

- Built and maintained a suite of tools for data analytics and reporting, providing metrics for marketing attribution to Flipp's partners including some of North America's largest retailers.
- Worked with React/Redux and Ruby on Rails to develop a web-app for self-service data analytics. Lead the technical re-design of the application's most popular data visualization, which facilitated the implementation of many highly requested features.
- Built the back-end of a new report generation system. Automated the workflow for failure recovery, which eliminated the need for developer intervention while increasing visibility into errors.
- Took complete ownership of a legacy reporting project, adding bug fixes, and troubleshooting time-sensitive issues. Worked with stakeholders to migrate users onto more state-of-the-art systems.

### Department of Computer Science, University of Toronto

Undergraduate Researcher

Toronto, ON

Summer 2018

- Researched new models for community structure inside of online forums. Identified metrics that could be used to rank communities based on potential for future success.
- Worked with Python and Pandas to analyse historic data from real online forums. Collaborated with experts in industry to verify correlations between community structure and user engagement.

### Department of Computer Science, University of Toronto

Teaching Assistant

Toronto, ON

Winter 2017, Sept. 2018 - Present

- Lead tutorials for groups of ~20 students, lecturing on topics such as algorithm design and data structures. Emphasised helping students develop an interest in theoretical aspects of computer science.
- Worked in the CS help-center, working 1-on-1 with students to answer questions. Communicated complex ideas in the manner best suited to the learning style of each student.

### RBC Capital Markets

Technical Systems Analyst (Co-op)

Toronto, ON

Summer 2016

- Worked in Java to develop applications for supporting a Canadian ETF market making system.
- Built a self-service web tool for answering queries about ETF basket composition, saving 30 mins of developer time per day and improving trader workflows.

## AWARDS

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### QEII Graduate Scholarship in Science and Technology

May. 2020 - Apr. 2021

### NSERC Undergraduate Research Award

Summer 2018

### New College Alumni Association Scholarship

Fall 2016

### New College Council Scholarship

Fall 2015

## PROGRAMMING SKILLS

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**Languages:** Python, Javascript, Ruby, SQL

**Technologies:** Ruby on Rails, React.js, Jupyter Notebook