Kayman Brusse

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(647) 569-9472

EDUCATION

Master of Science, Computer Science   Sept. 2019 – May 2021

University of Toronto   Toronto, ON

Research Area: Theory of Distributed Computing

Bachelor of Science, Honours   Sept. 2014 – Apr. 2019

University of Toronto; GPA: 3.80   Toronto, ON

Specialist in Computer Science (Theory), Major in Mathematics

EXPERIENCE

Graduate Student   Sept. 2019 – May 2021

University of Toronto - *LaTeX, Rust*   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   Summer 2018

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

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

Software Engineer   May 2017 - Apr. 2018

Flipp Corporation - *Typescript, React.js/Redux, Ruby on Rails, SQL*   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   Jan. 2017 - May 2021

University of Toronto   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   Summer 2016

RBC Capital Markets - *Javascript, Java*   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.