Kayman Brusse

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(437) 345-2993

Education

Master of Science, Computer Science — Toronto, ON
University of Toronto — Sept. 2019 – Apr. 2021 (Expected)
Research Area: Theory of Distributed Computing

Bachelor of Science, Honours — Toronto, ON
University of Toronto; GPA: 3.80 — Sept. 2014 – Apr. 2019
Specialist in Computer Science (Theory), Major in Mathematics

Experience

Department of Computer Science, University of Toronto — Toronto, ON
Graduate Researcher — Sept. 2019 - Present

- Conducted novel research in theoretical distributed computing, focusing on algorithms and lower-bounds for asynchronous shared-memory systems.
- Worked both independently and with collaborators to identify abstract research problems, develop creative solutions, and communicate new technical ideas to others in the computer science community.

Flipp Corporation — Toronto, ON
Software Engineer — May 2017 - Apr. 2018

- Built and maintained a suite of tools for data analytics and reporting, providing metrics for marketing attribution and ROI 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 newer systems and maintain strict customer SLAs.

Department of Computer Science, University of Toronto — Toronto, ON
Undergraduate Research Intern — 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 — Toronto, ON
Teaching Assistant — 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. Explained complex ideas in the manner best suited to the learning style of each student.

RBC Capital Markets — Toronto, ON
Technical Systems Analyst (Co-op) — 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.

Programming Skills

Languages: Python, Javascript, Ruby, SQL

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