

# Matthew D'Souza

Software Engineering, University of Waterloo

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## Summary of Skills

Languages: Java, C/C++, Python, SQL, JavaScript/HTML/CSS, Regular Expressions, LaTeX

Technologies: Git, Flask, MySQL, SQLite, JavaScriptMVC, Highcharts, Swing, Chrome Extensions

## Experience

*Software Engineering Intern (Veeva Systems)*

*May 2016- Aug. 2016*

- Built a Spring service to enqueue and asynchronously send usage metrics to Google Analytics in order to track user behaviour and find performance bottlenecks
- Identified deficiencies within the product, and took personal responsibility for the design and implementation of improvements
- Developed enhancements and fixes within the full stack of the product

## Projects

*Employment Statistics (JavaScript & Python)*

*Aug. 2016*

- Iteratively scraped information about co-op employment using regular expressions
- Designed an API using Flask to build HTML templates and query employment information
- Created a user interface allowing the user to filter and explore the data through Highcharts

*Metashift (JavaScript & Python)*

*Aug. 2015*

- Dynamically retrieved, aggregated, and displayed large data sets using Highcharts
- Processed thousands of calls to the Riot Games API using a Django/SQLite back-end

*Sorting Algorithm Visualizer (Java)*

*Jan. 2015*

- Developed a graphical interface to visualize selection, insertion, merge, and quick sort
- Implemented multithreading to compare algorithm efficiency in real time

## Education

*Candidate, Bachelor of Software Engineering (University of Waterloo)*

*Sept. 2015- Present*

- 93% cumulative average, First in Class Scholarship (1B term)
- Shadow Day Ambassador, Open House Volunteer
- Currently pursuing an undergraduate research assistantship under a professor

## Awards & Achievements

*Top 3, Tech Retreat Hackathon, University of Waterloo, Waterloo, ON*

*Aug. 2015*

- Created a direct peer-to-peer chat client, circumventing the need for a server using UDP hole-punching