

CLEMENT FUNG

3B SYSTEMS DESIGN ENGINEERING | UW ID#: 20413533
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[LINKEDIN](#) | [GITHUB](#)

SUMMARY

- Over 1 year of experience with **Linux** environments, developing production code in **Java**
- Loves everything data: **R** (for analysis and visualization) **Database**: (SQL, NoSQL, Distributed, JDBC)
- Proficient in complex cases with version provisioning software (**Git**, **SVN**)
- High level of interest with an expanding knowledge in fields of **Machine Learning** and Big Data

EDUCATION

Systems Design Engineering

University of Waterloo
Waterloo, ON
09/2011 - present

Awards:

- Sandford Fleming Award, Fall 2013 (**Outstanding Written Communication** – WKRPT 200)
- Dean's Honour List, Fall 2011 – Winter 2013 (**Top 3 ranking** for **3 straight terms**)
- Colonel Hugh Heasley Engineering Scholarship – Fall 2011

Coursera Online

01/2014 - present

Courses:

- **Machine Learning** – Stanford University
- **Game Theory II: Advanced Applications** – Stanford University
- **Mining Massive Datasets** – Stanford University

EXPERIENCE

Software Engineering Intern

LinkedIn
Mountain View, CA, USA
01-04/2012, 09-12/2012

- Working on **Project Voldemort**, an open-source **distributed database** system
- Wrote a **propagation layer** plug-in for Voldemort, leverages Apache Kafka to process concurrent writes from clients on the server side
- Gained experience with top level Apache projects: **Hadoop**, **Kafka**, **Avro** and **Zookeeper**

Software Engineering Intern

Voicebox Technologies
Bellevue, WA, USA
01/2014 – 04/2014

- In Java, implemented **concurrent programming** techniques and thread-safety to rewrite database access for a mobile service, resulting in a **3x performance** improvement
- Created a testing tool in Java to simulate server requests and create QA reports

Software Developer

Ontario Institute for Cancer Research
Toronto, ON
04/2013 – 08/2013

- Wrote an integrated R package and pipeline tool for recurrent aberrations in genomic data; performs **statistical analysis** and **data visualization**; using Perl, R, and an SGE cluster
- In R, created a package for comparing statistical inference tools on copy number data
- **Introduced unit testing** procedures for R development to the software lab

EXTRA-CURRICULAR ACTIVITIES

Hacker

Major League Hacking
09/2013 - present

- Avid participant of collegiate and corporate hackathons across North America
- Winner of **"Best Use of MongoDB"** at MHacks 2013, team of 4
- Winner of **"Best Use of Paypal"** at CalHacks 2014, team of 5

Big Events Team Lead

UW Engineers Without Borders
01/2013 – present

- Organized Run To End Poverty Waterloo, raising **\$4000+** to fund African fellow programs
- Conducted a campus-wide soccer tournament for charity
- Conducted team meetings and coached a team of 8 throughout the school term

INTERESTS

- Plays on an amateur **ultimate** team as part of the Toronto Ultimate Club
- Avid long distance runner, soccer fan and board game design enthusiast
- Competitive MLS fantasy soccer manager, placed in the **99th percentile** worldwide consecutively for 3 seasons