

CLEMENT FUNG

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

SUMMARY

- Highly proficient in **Object-Oriented Java** and **Perl** from direct experience in **Linux** environments (Prefers vim)
- Aspiring data geek: **R** (for analysis and visualization) **Database**: (SQL, MySQL, SQLite, MongoDB, JDBC)
- Industry experience 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:

- Sanford 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

EXPERIENCE

Software Engineering Intern

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

- In Java, implemented **concurrent programming** techniques and **thread-safety**
- Rewrote database access for a server-related tool, **improving performance by 400%**
- Created a testing tool in Java, validates server request behaviour and creates QA reports

Software Developer

Boutros Lab – OICR
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

Software Developer/QA Analyst

pVelocity
Toronto, ON
01-04/2012, 09-12/2012

- Refactored a Java package to access alternate database types in a **ROLAP BI** server
- Wrote scripts to perform **automated integration testing** and GUI testing
- Logged over **50 bugs** found in company software

EXTRA-CURRICULAR ACTIVITIES

MediData

MHacks 2013
09/2013

- Winner of "Best Use of MongoDB" at MHacks 2013, team of 4
- Wrote modules allowing for database queries to be processed
- Created an interactive data visualization module, appeared on front page of application

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 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