

CLEMENT FUNG

3A SYSTEMS DESIGN ENGINEERING | UW ID#: 20413533

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Summary

- Proficient in **OOP Java** and **Perl** from direct experience in **Linux** environments
- Data: **R** (analysis and visualization) **DB**: (SQL, MySQL, SQLite, MongoDB, JDBC)
- Industry experience with version provisioning software (**Git**, **SVN**)

EDUCATION

Systems Design Engineering

University of Waterloo
Waterloo, ON
09/2011 - present

Awards:

- Sanford Fleming Award, Fall 2013 (**Outstanding Written Communication** – WKRP 200)
- Dean's Honour List, Fall 2011 – Winter 2013 (**Awarded 3 times**)
- Colonel Hugh Heasley Engineering Scholarship – Fall 2011

Coursera Online

01/2014 - present

Courses Taken:

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

EXPERIENCE

Software Engineering Intern

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

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

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