Clement Fung

University of British Columbia
Masters of Science, Computer Science '18
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SUMMARY

- Over 1 year of software development experience in industry, through a variety of internships
- Experienced in data analysis: (R for analysis and visualization)
- Experience in data infrastructure (Hadoop, SQL, JDBC, Distributed Systems)
- Huge level of passion and interest with an expanding knowledge in field of machine learning
- Dedicated, enthusiastic learner with proven academic and internship record

EDUCATION

MASc, Computer Science   2016 - present
University of British Columbia, Vancouver, BC
Cumulative GPA: 0 / 100

BASc, Honours, Systems Design Engineering   2011 - 2016
University of Waterloo, Waterloo, ON
Cumulative GPA: 88 / 100

Achievements:
- Sanford Fleming Award for Co-operative Proficiency, *Outstanding Achievement in Co-op and Academics*
- Graduated with Dean's Honour's Distinction
- Dean's Honour's List, Winter 2013, *Ranked 2nd / 81*
- Dean's Honour's List, Spring 2012, *Ranked 2nd / 85*
- Dean's Honour's List, Fall 2011, *Ranked 3rd / 94*

Awards:
- W.W. King Exchange Fellowship, Winter 2015 - *$500*
- President's International Experience Award, Winter 2014 - *$1500*
- Stanford Fleming Award, Fall 2013, Outstanding Written Communication in Work Term Report - *$300*
- Colonel Hugh Heasley Engineering Scholarship, Fall 2011 - *$10000*
- University of Waterloo President's Scholarship of Distinction, Fall 2011 - *$2000*

Coursera Online   2014 - present
Various Locations
- Machine Learning - *Stanford University*
- Mining Massive Datasets - *Stanford University*
- Game Theory II: Advanced Applications - *Stanford University and University of British Columbia*
- Chinese For Beginners I and II - *Peking University*

PROFESSIONAL EXPERIENCE

Software Engineering Intern   June - August 2015
LinkedIn Corporation, Sunnyvale, CA, USA
- Worked on the Online Relevance Infrastructure team, building infrastructure for executing relevance algorithms at scale
- Designed and prototyped server for highly available real-time user statistics
- Used Apache Kafka and Apache Samza for distributed stream processing architecture
- Implemented performance metrics for system dashboards and real time reporting
- 1st place overall winner of the Bay Area Intern Hackathon, $10000

Software Engineering Intern   September 2014 - December 2014
LinkedIn Corporation, Mountain View, CA, USA
- Worked on Project Voldemort team, an open-source, distributed key value store
- Prototyped the development of a new derived data serving system, Venice
- Created a propagation layer on Voldemort to accept concurrent writes from multiple clients (Native API, Hadoop, Samza)
- Using Azkaban, implemented a Hadoop to Kafka tool for streaming of Hadoop datasets
- Gained experience with top level Apache projects: Hadoop, Kafka and Zookeeper

Software Engineering Intern   January 2014 - April 2014
Voicebox Technologies, Bellevue, WA, USA
- Intern on the Server and Tools team, responsible for managing Voicebox public API calls
- Implemented concurrent SQLite database access for a mobile service, resulting in 3x performance increase
- Designed, created and presented new testing tool to simulate and verify server requests
- Implemented automatic reporting and dashboards for server health on a nightly build

Software Developer   May 2013 - August 2013
Ontario Institute for Cancer Research, Toronto, ON
- Software developer in Paul Boutros' bioinformatics research group
- Created RecCNA, an integrated R package and pipeline tool for recurrent aberrations in genomic data
- Created a wrapper interface for statistical inference on copy number data
- Create automatic statistical analysis and data visualization tools in Perl, R and an SGE cluster
- Introduced unit testing procedures for R development in the software lab, using testthat

Software Developer   September 2012 - December 2012
pVelocity, Toronto, ON
- Wrote a Java interface layer to access alternate database types for use in a ROLAP server
- Used JDBC driver for Java access to SQL server and MySQL workbench databases
- Generated SQL startup scripts for use in new software installations

QA Analyst   January 2012 - April 2012
pVelocity, Toronto, ON
- Used automation tools to record and execute XML integration testing
- Wrote and updated GUI test scripts in VB using TestComplete

- Updated test cases and maintained test environment to keep up with software enhancements
- Logged over 50 bugs and created errors reports and logs
- Recommended enhancements to company software and applications

PROJECTS

Driven   September 2015 - April 2016
University of Waterloo, Waterloo, ON
- Fourth year engineering design project
- Building a system to annotate and critique driver lane change quality
- In real-time, processes camera video and kinematic signals for information
- Uses Viola-Jones and KLT trackers to detect driver's facial position

FridgeMate   May 2014 - August 2014
University of Waterloo, Waterloo, ON
- Build a logistic regression fruit classifier as a household fridge magnet
- From images of fruit, extracted features and classified objects on a Raspberry Pi
- Performed model training and data collection independently
- First attempt at both image processing and machine learning in an independent environment

ACTIVITIES

Avid Hackathon Competitor   September 2013 - August 2015
Various Locations, Canada and USA
- Regular participant of collegiate and professional hackathons
- Won $10000 for 1st place at the Bay Area Intern Hackathon
- Won "Best Use of PayPal" at CalHacks 2014, Berkeley, CA, USA
- Won "Best Use of MongoDB" at MHacks 2013, Ann Arbor, MI, USA

Vice President of Big Events   January 2013 - August 2014
Engineers Without Borders - University of Waterloo, Waterloo, ON
- Organized Run To End Poverty Waterloo raising $4000+ to fund African fellow programs
- Conducted a campus-wide charity soccer tournament, raising $500+
- Conducted weekly team meetings, coaching a team of 8 throughout the school terms
- Organized and participated in long term planning meetings to scope out club future

INTERESTS
- Played on an amateur ultimate team in 2013 season as part of Toronto Ultimate Club
- Film lover, soccer fanatic, avid traveller and board game design enthusiast
- Competitive fantasy soccer manager, placed in 99th percentile worldwide consecutively for 3 seasons