

# Jessie(Dehui) Kong

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## Technical Skills:

- Agile methodologies
- HTML5/ CSS/ DOM
- Database (MySQL)
- Git/Perforce/SVN
- Tomcat/Glassfish
- RESTFUL
- Regular expression
- JSON
- Data mining
- Computer network
- Linux development environment

## Programming Languages:

- Proficient in Java
- Proficient in C++/C
- Experienced in JavaScript
- Experienced in Python
- Experienced in R

## Education:

- **Queen's University**    **Master of science: Computer Science**    **Sep. 2015 – Jan. 2016**  
Kingston, ON, Canada    GPA: 4.15/4.3 (Transferred from Concordia University)  
Major courses: Data mining, Formal methods in software engineering, Mining software repository, Computational complexity.
- **Concordia University**    **Graduate Program: Computer Science**    **Sep. 2014 – April 2015**  
Montreal, QC, Canada    GPA: 3.9/4.3  
Major courses: Computer network, Artificial intelligence, Advanced database system.
- **Shanghai Jiaotong University**    **Bachelor of Engineering: Information Security**    **2008 -2012**  
Shanghai, China  
Outstanding graduate of Shanghai Jiaotong University

## Employment:

- **Synopsys Co. Ltd**    **Software R & D Engineer**    **Shanghai, China**    **June 2012 – June 2014**  
*Skills: C/C++ programming, Linux development environment, Perforce, cross-culture/cross-team communication skill.*
  - ✓ Co-implemented a unified data structure for multiple EDA tools; bug fixing; feature enhancement.
  - ✓ Applied for a job rotation to a testing group for 3 month: worked on automated regression tests.
  - ✓ Cooperated well with team members from cross-cultural backgrounds (US, India).
- **Ericsson**    **Software Testing Engineer Intern**    **Shanghai, China**    **May 2011 – Aug. 2011**  
*Skills: wireless communication protocols, functional test, agile developing environment*
  - ✓ Developed automated test cases using TTCN-3 to ensure the existing functionalities of Ericsson's Servicing GPRS Support Node (SGSN) are not broken.
  - ✓ Self-adapted to an agile product development process; working collaboratively in small cross-functional teams.

## Course Projects:

- **Junk email filtering (Java)**  
Use machine learning technique - Naïve Bayes prediction model to implement a junk email classifier, and achieve 95% accuracy.
- **Software bug prediction (Python, R)**  
Extract software metrics and bug information from open source software repository using python; leverage the software metrics to build models (SVM, Logistic Regression) in R and predict the bug-proneness of a source code file.
- **Data mining project (R)**  
Use machine learning techniques (random forest, hierarchical clustering, topic modeling) to discover interesting information from given datasets.
- **Computer network project (C++)**  
Implement file transfer protocols between clients and a server, which include TCP protocol, UDP “stop and wait” protocol with a tolerance to packet loss, and a UDP protocol with error recovery.
- **Database project (Java)**  
Implement a sort-based “join” of two relations with limited main memory, which are essential for a relational database management system.
- **Dynamic IP traceback for DoS attacks (NS2)**  
Use the dynamic packet-marking technique to trace the attacking paths under a simulated environment.

## Volunteers:

- **Volunteer for Shanghai World Expo** **Sep. 2010 – Oct. 2010**  
Work as an undergraduate volunteer in Expo Site for one month. Cooperate with my colleagues and help thousands of tourists find proper Expo traffic lines to their destination.