

HENG LI

PROFESSIONAL SKILLS

- Domain knowledge: software engineering, data mining, machine learning, statistics, optimization, database administration and programming (MySQL, MS SQL, MongoDB), web service
- Programming language & tools: Python (including numpy, pandas, scikit-learn), R, Java, C/C++, SQL, Matlab
- In-depth comprehension of basic and advanced data structures and algorithms
- Good communication and presentation skills
- I am a fast learner.

EDUCATION

- PhD Candidate in Computing, **Queen's University**, Kingston, Canada Sep. 2014 - present
 - ✓ Work in the Software Analysis and Intelligence Lab (SAIL)
 - ✓ Research area: mining software repository, empirical software engineering, log analysis
 - ✓ Specific work: apply data mining techniques to study software logging practices
 - ✓ Cum. GPA: 4.2/4.3
 - ✓ **Related skills:** Python, R, Java, data mining, data visualization, statistics, machine learning, formal writing, presentation.
- M.Sc., **Fudan University**, Shanghai, China Sep. 2009 - June. 2012
 - ✓ Research area: computer aided design, optimization
- B.E., **Sun Yat-Sen University**, Guangzhou, China, Sep. 2005 - June. 2009
 - ✓ Ranking: 2/93; Outstanding graduate of Sun Yat-Sen University (for top 3% students)

WORK EXPERIENCE

- **Performance Associate Student, BlackBerry**, Waterloo, Canada Sep 2015 – Dec. 2016
 - ✓ Focused on research oriented projects that target to improve the performance of software systems and aid performance analysis processes.
 - ✓ Developed a framework to automatically configure the critical parameters of an enterprise software system, which reduces the error rate of web requests by more than 80%.
 - ✓ **Related skills:** Python, Java, R, data collection, real time log analysis, optimization (local search), RESTful, Tomcat, MongoDB, MS SQL, JDBC, Spark, Elastic search, Kibana, Kafka.
- **Software R&D Engineer, Synopsys**, Shanghai, China July 2012 – Aug. 2014
 - ✓ Synopsys is a world leading company in the Electronic Design Automation (EDA) industry.
 - ✓ Specific job: add low power features in Synopsys's software products that are used by electronic design companies like Apple and Intel for designing power-savings devices.
 - ✓ Got Annual New Star Award for the first year in Synopsys.
 - ✓ Active in company activities: co-organized several team-building and off-site activities; member of the business group's badminton team; joined in company's Toastmasters club.

- ✓ **Related skills:** C/C++ programming, software development processes (version control, unit test, regression test, code review, etc.), delivering on time, presentation.

■ **Software Development Intern, Sina, Beijing, China** Dec. 2011 - Feb. 2012

- ✓ Sina is a leading internet company in China.
- ✓ Specific job: fix software bugs/defects in the mobile end of a social network application (weibo).
- ✓ Highly recognized by the colleagues for resolving some critical issues quickly.
- ✓ **Related skills:** learn new things quickly, reach root causes and fix bugs in a short time, mobile app development.

SELECTED PUBLICATIONS

- Heng Li, Weiyi Shang, Ahmed E. Hassan. Which log level should developers choose for a new logging statement? Accepted in Empirical Software Engineering, 2016.
- Heng Li, Weiyi Shang, Ying Zou, Ahmed E Hassan. Towards Just-in-time Suggestions for Log Changes. Accepted in Empirical Software Engineering, 2016.

HOBBIES:

- Soccer, jogging, fishing, reading, programming.