HENG LI

PROFESSIONAL SKILLS

- Domain knowledge: software engineering, data mining, machine learning, statistics, optimization, database administration and programming, web service
- Programming language & tools: Python (including numpy, pandas, scikit-learn), R, Java, C/C++, MySQL, MS SQL, MongoDB, 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.
- **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.

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.