

# Hongkai Liu

liuhkai@gmail.com  
438-990-6099  
Montreal, QC, Canada

## SUMMARY

- Ph.D. in Computer Science. Enthusiastic about both theoretical and practical work in the IT industry. Strive to work with and learn from the best in the area. Recognized for positive attitude, self-starter, and team spirit.
- 10+ years' experience in software development and testing. Solid knowledge on Java programming. Skills of Shell, Python, Ansible and GoLang. Hands-on experience with Docker and Kubernetes. Familiar with TDD, BDD, and test automation. Involved in development and maintenance of CI/CD tools.
- Proficient in English. Native Chinese, and basic German.

## WORK EXPERIENCE

**Red Hat Canada LTD., Canada.**

Apr. 2019 to now

**Software Engineer**

- Devops on [Prow-based CI system](#) for [OpenShift](#).

**Environment:** IntelliJ/VSCode, GoLang, Python, Shell, Github, Jira, [Kubernetes](#), and OpenShift.

**Red Hat Canada LTD., Canada.**

Jun. 2017 to Apr. 2019

**Quality Engineer**

- Development of system tests on [OpenShift](#) clusters on AWS, GCE and Azure. Automation of end-to-end OpenShift installation and other tests with Shell, Python, and Ansible.
- Contribution to cluster-loader in extended tests of [github.com/openshift/origin](https://github.com/openshift/origin) which creates different types of applications configured by OpenShift [templates](#) on an OpenShift cluster.
- Tests on native container storage solutions such as [Gluster](#) and [Rook-Ceph](#).

**Environment:** IntelliJ/VSCode, Shell/Python/GoLang, Ansible, Github, Jenkins/Travis-CI, Jira, Coveralls, Docker, [Kubernetes](#), and OpenShift.

**Elits Canada Inc., Canada.**

Mar. 2015 to Jun. 2017

**Software Developer** (Consultant at Ericsson)

- Support and troubleshooting of [Gerrit](#) server. Engaged in its plugin development. Processing with Logstash the logs produced by Gerrit cluster and Apache servers.
- Implementation and testing of [Eiffel](#), an integrated CI system. Performing tests againsting Docker/Vagrant environment.
- Support and troubleshooting of Jenkins server. Application of and contributions to Jenkins-related tools such as [ATH](#), [HAJP2](#), and MhWeb.

**Environment:** Core Java 7/8, Springboot/Guice, Cucumber, IntelliJ, Bash/Python, Gerrit/Github, Maven/Gradle, Jenkins/Travis-CI, Jira/Tuleap, SonarQube/Coveralls, Docker, and Vagrant.

**Lenovo Corp. Research & Development, China.**

Nov. 2013 to Nov. 2014

**Development Architect**

- Implementation of Lenovo Push Application on Lenovo Android-based smartphones and tablets.
- Design and development of the Data Reporting System based on Kafka, Logstash, Redis, and Hadoop-based tools such as Hive and Impala.
- Implementation of Real-Time Monitoring System which integrates Kafka and [mdrill](#).

**Environment:** Core Java 6, Android SDK, MySQL, CDH, mdrill, Redis, Kafka, Logstash, Spring, MyBatis, Netty, JUnit, Eclipse, Linux, SVN, Gerrit, Maven, and Hudson.

**Beijing Leadtone Wireless Co., Ltd, China.**

Sep. 2010 to Sep. 2013

**Senior Software Developer**

- Algorithm design and implementation to provide intelligent polling time of POP3 mailboxes.
- Protocol design of LeadTone push platform, based on the research and analysis of Apple's APNs and Google's C2DM. Prototyping Android applications on the platform with Android SDK.

**Environment:** Core Java 6, Android SDK, MySQL, Spring, Hibernate, JUnit, Eclipse, Linux, SVN, Maven, and Continuum.

**CERTIFICATE**

- VMware Certified Professional on vSphere 5 (VCP5) in Aug. 2012.
- IELTS: 7.5 in Sep. 2013.

**EDUCATION**

- Ph.D. in Computer Science, Dresden University of Technology, Germany. Jan. 2010
- M.S. in Computer Science, Dresden University of Technology, Germany. Mar. 2005
- B.E. in Computer Science, Anshan Science and Technology University, China. Jul. 2002

**PUBLICATION**

- Hongkai Liu, Carsten Lutz, Maja Milicic, and Frank Wolter. Foundations of Instance Level Updates in Expressive Description Logics. Artificial Intelligence, 2011.

Full list of papers: <http://lat.inf.tu-dresden.de/research/papers.html>