

# Hongkai Liu

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## SUMMARY

Ph.D in computer science. 10+ years' experience in software engineering. DevOps in Kubernetes/OpenShift environment. Development and maintenance of CI/CD tools. Familiar with TDD, BDD, and test automation.

## WORK EXPERIENCE

**Red Hat Canada LTD., Canada.**  
**Senior Software Engineer**

Oct. 2022 to now

**Red Hat Canada LTD., Canada.**  
**Software Engineer**

Apr. 2019 to Oct. 2022

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

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

**Red Hat Canada LTD., Canada.**  
**Quality Engineer**

Jun. 2017 to Apr. 2019

- Development of system tests on [OpenShift](#) clusters on AWS, GCE and Azure. Automation of end-to-end OpenShift installation and tests with Shell, Python, and Ansible.
- Tests on native container storage solutions such as [Gluster](#) and [Rook-Ceph](#).

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

**Elits Canada Inc., Canada.**  
**Software Developer** (Consultant at Ericsson)

Mar. 2015 to Jun. 2017

- Development, support and troubleshooting of [Gerrit](#) service and Jenkins service.
- Implementation and testing of [Eiffel](#), an integrated CI system. Executing tests in a containerized environment.

**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.**  
**Development Architect**

Nov. 2013 to Nov. 2014

- Development of the Data Reporting System based on Kafka, Logstash, and Hadoop-based tools.
- 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.**  
**Senior Software Developer**

Sep. 2010 to Sep. 2013

- Algorithm design and implementation to provide intelligent polling time of POP3 mailboxes.
- Protocol design of LeadTone push platform. 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**

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| ● 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. | July 2002 |