

Zhenqiang Li

lizhenqiangsnake@gmail.com, [LinkedIn](#)

PROFILE

- Passionate **software engineer** with 2 years experience of **Android development**, 1 year experience of **Web App development**, 2 years experience of **Web server development**, and 2 years experience of **distributed system** development.
- Exceptional skills to tackle users' real problems by tuning and combining latest techniques.

LIFE @ Google

[Area120](#) project · Software Engineer

10/2018 - 05/2019

A novel project to boost user productivity with stylus and tablet, applying latest Google techniques, such as handwriting recognition and [Ink](#). As the only backend engineer and one of two frontend engineers, I independently designed and implemented all data model, service API, and metrics analysis pipeline and worked closely with UX to help design the User Interface and implement 50% of the Web App frontend.

[Android Wear](#) · Software Engineer

04/2017 - 05/2017

Android wear app launch performance analyze

The goal of this project is to make app launch time more stable and reduce the long tail as well as the average app launch time. I designed some experiments to analyze app performance with bash scripts, adb commands, and systrace.

Main findings:

- The long tail slow launch always happens when the system load is pretty high
- There are some unnecessary overhead (extra activities or content providers) for app launch
- Pinning shared lib into memory could boost app launch speed
- Background apps could run on all cores may slow app launch

OEM customization

Android Wear project have lots of fashion partners. These partners have requested to customize the appearance of Android Wear watches for a long time. This project aims to automate the process of customization to make sure the solution is scalable, robust, and secure. I proposed a solution and independently implemented the solution.

Main difficulties:

- Changes needed from compiling process to resource accessing at runtime
- It is easy to break release process because the build configuration changes
- There is no clear picture about the approach to use, we were spending two weeks in discussing the feasibility of using [RRO](#).
- There are many tweaks even after the final plan is decided because of new information comes in
 - Build framework limitation
 - Material design icons support needed

Reply to iMessage

Android Wear wants to provide the feature to allow users to send SMS from Android Wear watch on behalf of the iOS-paired users phone number. I proposed a solution and independently implemented the solution.

LIFE < Google

RedHat · Software Engineer Intern

05/2016 - 12/2016

- Integrate [Ceph](#) as the backend storage of RocksDB
- Validate the correctness of modified RocksDB by integrating it into MyRocks
- Implement a script to automatic test the correctness and performance of Ceph backend

Huawei · Software Engineer

08/2014 - 07/2015

- Developed metadata management for a Ceph-like distributed file system (DFS)
- Identified and fixed bugs related to buffer overflows, deadlocks, and data races
- Modified low-level data storage sub-module to transition from tree structure to flat structure
- Wrote/updated more than 10,000 lines of production code
- Gained a deep understanding of distributed file systems, object storage, and post-mortem debugging of concurrent code

EDU

- Master of Science in Computer Science, Lehigh University, Bethlehem, PA, USA
- Master of Science in Computer Science and Technology, Tsinghua University, Beijing, China
- Bachelor of Science in Information and Computing Science, Nankai University, Tianjin, China