

# Jing Zhang

ANDROID OS SOFTWARE ENGINEER

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*"Programming a better world"*

## Employment

### Lenovo Inc.

SENIOR ANDROID SYSTEM PERFORMANCE ENGINEER

Beijing, China

Apr. 2015 - Jul. 2016

- Responsible for system level performance tuning of ZUK series Android Smart phone including Z1, Z2, Z2 pro
- Analysis of stability issue, native app crash and kernel crash
- Analysis of overheat issue, with enhanced debug approach to dump traceview on device side
- Analysis of power and battery issue, device fail to suspend
- Analysis of memory issue, corruption and app or system level OOM, LMK
- Developed a bootloader unlock protection module
- Developed the overclock function on Z2
- Adapting F2FS filesystem to ZUK smart phones

### Mediatek Inc.

SENIOR SOFTWARE ENGINEER/TECHICAL DEPUTY

Beijing, China

Jun. 2011 - Apr. 2015

- Android system level techcal support on all MTK smart phone chipsets from single core ARM11 to octa-core ARM64 series processors
- Analysis of stability issue, kernel crash and watchdog reset, and developed a mini-dump module to enhance the debugging
- Responsible for Android CTS certification, helping customers and cooperation with google TAM
- Improved MTK platform security, with control on root privileges, group permission, global writable and SELinux policy
- Taking part in developping a proprietary runtime exception snapshot system to capture all kinds of abnormal behavior
- Taking part in developping a proprietary offline auto bug analysis system based on google's DDMS

## Education

### Graduate University of Chinese Academy of Sciences

M.E. IN PATTERN RECOGNITION AND INTELLIGENT SYSTEM

Beijing, China

Sep. 2008 - July. 2011

### Shandong University

B.E. IN BIOMEDICAL ENGINEERING

Jinan, China

Sep. 2004 - July. 2008

## Skills

<b>Android</b>	framework, system services, permission, security, memory, cross-layer interfaces, CTS, reverse-engineering
<b>Linux kernel</b>	stack, exception handling flow, memory, lock, scheduler, perf, watchdog, kdb
<b>Bootloader</b>	little kernel
<b>Linux</b>	ELF format, core dump generation and analysis
<b>Programming</b>	C/C++, JAVA, Python
<b>Performance</b>	Android performance tuning, systrace, traceview, strace, ftrace
<b>Linux tools</b>	gcc, gdb and other toolchain
<b>Memory tools</b>	MAT, malloc debug
<b>R&amp;D environment</b>	Linux workstation, git, jira, confluence, adb, ddms, android studio

## Reference

ON REQUEST