

TzuYuan Lin



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PROFILE

I was majored in computer science, and always try to learn more. Strongly curious for unknown aspect, that means I will not limit myself in a single aspect.

Everything is welcome, and I'm appreciate to be a part of them. Besides professional skills, I'm a good guy to be with, also I will not hiding anything I known, and happy to share with anyone who wanna know. For me, I think engineer need be enthusiastic to what they do, not only about work, but interesting.

EXPERIENCE

Senior Software Engineer, OnePlus 2015 Present

Senior Software Engineer, ASUS 2014 2015

Software Engineer, ASUS 2012 2013

EDUCATION

Majored in Computer Science, BA from National Chiayi University

Majored in Computer Science, MA from National Sun Yat-sen University

SKILLS

1. C/C++
2. Java
3. Python/Shell
4. PHP/MySQL
5. GNU utilities/git/Makefile

KNOWLEDGES

1. Linux system programming
2. Linux security programming
3. Linux kernel programming:
 - a. scheduling
 - b. memory management
 - c. power management
 - d. file system
 - e. device mapper

- f. cpu
- 4. Linux kernel debugging
- 5. ARM assembly language
- 6. System profiling analysis
- 7. Windows system programming
- 8. Network programming
- 9. Android programming:
 - a. build system
 - b. app
 - c. framework
 - d. native layer
 - e. security
- 10. Algorithm:
 - a. data struct
 - b. sorting
 - c. binary tree
 - b. dynamic programming
- 11. Machine learning
- 12. Compiler:
 - a. gcc/g++
 - b. llvm/clang
- 13. binary hacking/ kernel hacking
- 14. Web server develop
- 15. DRM/HDCP

OpenSource:

- 1. ARM profiling tool
<https://github.com/ARM-software/gator>
- 2. Uiautomator
<https://github.com/xiacong/uiautomator>

WORKS:

- 1. Kernel performance improve
cpufreq/cpuidle/scheduling/power consumption
- 2. Kernel profiling tool development based on ARM DS-5 streamline
- 3. Kernel prebuilt module release architecture
- 4. DRM (digital right management) playback
- 5. Data encrypt/decrypt and transfer architecture over tcpip
- 6. Security signing server architecture
- 7. Security Boot
- 8. TEE(Trusted environment programming) API development
- 9. Stress/analysis tools development
- 10. Warehousing System: server side development
- 11. Code-review server and manager for internal development

THESIS

- 1. metaheuristic algorithm for clustering (big data usage)
- 2. low-level performance evaluate based on QEMU