

# Jangwoong Kim

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## Education

### Sogang University

M.S. IN COMPUTER SCIENCE AND ENGINEERING

Seoul, S.Korea

Mar. 2017 - Feb. 2019

- Thesis: Single File Write Parallelization of a Non-Volatile Memory Filesystem using Range Locking
- Advisor: **Dr. Sungyong Park** and **Dr. Youngjae Kim**

### Sogang University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Seoul, S.Korea

Mar. 2013 - Feb. 2017

## Skills

- Decent understanding of basic CS concepts (especially in OS, system programming, computer architecture)
- Overall understanding of computer systems (pre-processing, compile, static/dynamic linking, system calls and kernel)
- Many challenging experiences in C/C++ developments
- Ability to adopt right C++ features and STLs in right circumstances based on in-depth understanding of their behaviors
- Hardware-level C skills (assembly inlining, machine code injecting)
- Experiences of low-level Linux libraries and understanding of their internals (socket, file, shared memory, thread, synchronization, scheduler, IPC, signal)
- Decent C/C++ debugging skills
- Experiences of Linux kernel developments
- Ability to understand and write academic papers fluently, and to independently find my own research topics (especially in file systems, parallel data structures and synchronizations)

## Employments

### TmaxOS. Co., Ltd.

RESEARCHER

Gyeonggi-do, S.Korea

Feb. 2019 - Present

- Developed Windows APIs on Linux to run Windows binaries on TmaxOS (which is based on Linux)
- Designed and developed proxy functions to support Windows inter-process COM function calls by generating x86 machine codes in runtime
- Mediated different calling conventions of Windows and Linux by inlining x86 assemblies to guarantee consistency of memory stack

## Publications

My research interest is focused on file system in persistent memory.

### pNOVA: Optimizing Shared File I/O Operations of NVM File System on Manycore Servers

Hangzhou, China.

JUNE-HYUNG KIM, **JANGWOONG KIM**, HYEONGU KANG, HANG-GYU LEE, SUNGYONG PARK, YOUNGJAE KIM

2019

10th ACM SIGOPS Asia-Pacific Workshop on Systems (APSys), 2019.

### Parallelizing a Single File Write Operation of Non-Volatile Memory File Systems.

Pyeongchang, S.Korea.

**JANGWOONG KIM**, JUNE-HYUNG KIM, YOUNGJAE KIM, SUNGYONG PARK.

2018

Korea Software Congress (KSC), 2018. [\[Best Paper of Computer System\]](#)

### Understanding the performance of storage class memory file systems in the NUMA architecture.

Journal

**JANGWOONG KIM**, AWAIS KHAN, YOUNGJAE KIM, SUNGYONG PARK.

2018

The Journal of Networks, Software Tools and Applications (Cluster Computing), 2018.

### ZonFS: A Storage Class Memory File System with Memory Zone Partitioning on Linux.

Arizona, US.

**JANGWOONG KIM**, JAE-HOON KIM, AWAIS KHAN, YOUNGJAE KIM, SUNGYONG PARK.

2018

The 5th International Workshop on Autonomic Management of Grid and Cloud Computing (AMGCC), 2017.

## Awards

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### DOMESTIC

2018 **Best Paper of Computer System**, Korea Software Congress (KSC)

*Pyeongchang,  
S.Korea*

## Open Source Softwares

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**FBBS** Futex-based User Level Blocking Synchronization