Jangwoong **Kim**

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Education

Sogang University   *Seoul, S.Korea*

M.S. in Computer Science and Engineering   *Mar. 2017 - Feb. 2019*

- Thesis: Single File Write Parallelization of a Non-Volatile Memory Filesystem using Range Locking

Sogang University   *Seoul, S.Korea*

B.S. in Computer Science and Engineering   *Mar. 2013 - Feb. 2017*

Skills

- Decent understanding of basic CS concepts (especially in OS, comptuer architecture)
- Overall understanding of how comuputer system works (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 circurstances based on understanding of their behaviors (including modern C++)
- Hardware-level C skills (assembly inlining, machine code injecting)
- Experiences of low-level Linux libaraies and understanding their internals (socket, file, shared memory, thread, scheduler, IPC, signal)
- Expertise in C/C++ debugging
- 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)
- Experiences of Linux kernel developments

Employments

TmaxOS. Co., Ltd.   *Gyeonggi-do, S.Korea*

Researcher   *Feb. 2019 - Present*

- Developed windows APIs on Linux to run windows binaries on TmaxOS (which is based on Linux)

Publications

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

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

Open Source Softwares

FBBS   Futex-based User Level Blocking Synchronization