

INHO SONG

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EDUCATION

Virginia Tech, Blacksburg, VA, USA

Aug. 2023 - present

Ph.D. in Computer Science
Research Topic: Software/Hardware co-design
for low, predictable end-to-end latency and high throughput
Co-advised by [Huaicheng Li](#) and [Sam H. Noh](#)

Dankook University, Yongin-si, Republic of Korea

Graduated in 2023 Fall

Master's Degree in Computer Science
Research Topic: SW/HW Co-optimizing with ZNS SSD Internals and Filesystem
Master's Thesis: Design Tradeoff in ZNS SSD performance
Advisor: [Jongmoo Choi](#)

GPA 4.4/4.5

Dankook University, Yongin-si, Republic of Korea

Graduated in 2022 Spring

Bachelor of Computer Science
Department of Software

GPA 4.06/4.5

PUBLICATIONS

Inho Song, Shoaib A. Qazi, Javier González, Matias Bjørling, Sam H. Noh, and Huaicheng Li
Characterizing and Emulating FDP SSDs with Warp
24th USENIX Conference on File and Storage Technologies (FAST'26)

Hangyul Kim, **Inho Song**, and Sam H. Noh
CRAZNS: A Case for Conventional Namespace Support for RAID with ZNS SSDs [S5]
The 40th ACM/SIGAPP Symposium On Applied Computing 2025 (SAC'25)

Inho Song, Myunghoon Oh, Bryan S. Kim, Seewhan Yoo, Jae-Dong Lee, and Jongmoo Choi
ConfZNS: A Novel Emulator for Exploring Design Space of ZNS SSDs [S4]
The ACM International Systems and Storage Conference 2023 (SYSTOR'23)

JOURNAL

Inho Song, Wonjin Lee, Jae-Dong Lee, Seehwan Yoo, Jongmoo Choi
Overcoming a Zone Reclaiming Overhead with Partial-Zone Reclaiming [KJ]
Journal of Korean Institute of Information Scientists and Engineers(KIISE): Computer Systems and Theory in 2024

PATENT

Jongmoo Choi, Samuel Woo, and **Inho Song** *Republic of Korea: granted*
Method for analyzing vehicle forensic and computing device for execution the same 10-2022-0139234

EXPERIENCE

Intern, Controller Architecture Modeling Engineer *May - Aug, 2024*
Samsung Electronics, Controller Architecture Team(CAT) San Jose, CA

Modeling and providing hardware-software co-design solutions
with NVMe FDP storage and industry-level storage system simulation