

SEOKJOO CHO

COMPUTER SCIENCE RESEARCHER

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OBJECTIVE

To become a person who not only benefits myself but also propagates positive influences on others;
To become a world-renowned operating system researcher and utilize my knowledge for contributing to the advancement of humanity.

RESEARCH INTERESTS

Operating Systems

- Designing and optimizing Memory Management systems in the Linux Kernel.
- Making parallel and concurrent OS components.
- Designing new data structure for OS components.

File and Storage System

- EXT4, XFS file system in the Linux Kernel.
- Making a new file system for emerging storage.
- Designing new concurrent data structure for improving I/O performance.

EDUCATION

Aug 2024 - Present	Ph.D. in Computer Science University of Illinois Urbana-Champaign
Mar 2020 - Aug 2022	Bachelor of Engineering in School of Computer Science and Engineering Chung-Ang University in Seoul, Korea <ul style="list-style-type: none">▪ Double Majored
Mar 2016 - Aug 2022	Bachelor of Science in Engineering in School of Mechanical Engineering Chung-Ang University in Seoul, Korea <ul style="list-style-type: none">▪ 4.06 / 4.5 GPA (Magna Cum Laude)

PUBLICATIONS

- [2] Kiet Tuan Pham^{*1}, **Seokjoo Cho**^{*1}, Sangjin Lee, Lan Anh Nguyen, Ipoom Jeong, Sungjin Lee, Nam Sung Kim, Yongseok Son, "ScaleCache: A Scalable Page Cache for Multiple Solid-State Drives.", In Proceedings of **ACM SIGOPS European Conference on Computer Systems (EuroSys '24)**, Athens, Greece, Apr 2024. (^{*1} **Equally contribution**)
- [1] **Seokjoo Cho**, Sangjin Lee, Kiet Tuan Pham, Nguyen Lan Anh, Sunggon Kim, Yongseok Son, "A Survey on Minimizing Lock Contention in Shared Resources in Linux Kernel.", In Proceedings of **International Conference on ICT Convergence (ICTC '22)**, Jeju, Korea, Oct 2022.

EXPERIENCES

Aug 2024 - Present	Research Assistant University of Illinois Urbana-Champaign <ul style="list-style-type: none">▪ Distributed and Storage System Lab
Sep 2022 - Dec 2022	Teaching Assistant Chung-Ang Univ. in Seoul, Korea <ul style="list-style-type: none">▪ Linux System and its Application
Jul 2022 - Nov 2022	Hyundai Motor Group H-Mobility Class (Autonomous Car program) Seoul, Korea <ul style="list-style-type: none">▪ Completed course consisting of 5 major category: Perception, Localization, Decision-making, Control, Network.
Dec 2021 - Jul 2024	Undergraduate Researcher Chung-Ang Univ. in Seoul, Korea <ul style="list-style-type: none">▪ Systems and Storage Lab
Jul 2021 - Aug 2021	Purdue Chung-Ang IITP-Summer-Program-2021 West Lafayette, IN (Online) <ul style="list-style-type: none">▪ Conducted a GPS-based IoT service design project on the topic of "Safety Monitoring System for Dementia Patients Using Smart Watch" with Purdue University.▪ Implemented a back-end application using Python Flask as a server stack.▪ Source available: https://github.com/ilovethisid/Smart-watch-for-Dementia-patient

AWARDS

Nov 2022	Top Excellence Award, 2022 CAU SW-AI Tech Fair Seoul, Korea <ul style="list-style-type: none">▪ Awarded first place in SW-AI Integrated Achievement category.▪ Data Structure Monitoring: Implemented a simple library aimed at simplifying the tracking of changes within the internal data structures of the Linux Kernel.
Dec 2020	President's Award from NRF, 4th X-corps Festival Seoul, Korea <ul style="list-style-type: none">▪ Won second place, President's Award from the National Research Foundation of Korea (NRF).▪ Designed a model for an indoor fitness facility environment that facilitates sustainable electricity generation.▪ The research theme focused on converting exercise energy generated in the gym into electrical energy, storing it in an Energy Storage System (ESS), and reusing it.
Nov 2020	Gabia Special Award, 2020 Open Source Contribution Seoul, Korea <ul style="list-style-type: none">▪ Recognized and awarded for contributions to Ubuntu's Korean translation.▪ Actively contributing to the localization efforts for Ubuntu, a Linux distribution, with a focus on L10N.▪ Source available: https://translations.launchpad.net/~linuxlight

QUALIFICATIONS

Nov 2023 - Nov 2025

TOEFL iBT

- Total **104** out of 120 (RC 29, LC 29, SP 25, WR 21)

Feb 2022 - Feb 2024

TOEIC

- Total **905** out of 990 (LC 435, RC 470)

ADDITIONAL INFORMATION

Dec 2019 - Dec 2020

President of University Student Club

CAU Purn the Volunteers in Seoul, Korea

- Served as the president of educational volunteering club.
- Made efforts to actively collaborate with club executives in making the best decisions possible during the unprecedented challenges of the first year of the COVID-19 pandemic.

Apr 2017 - Jan 2019

Military Service

Gimpo, Korea

- Served in the Republic of Korea Marine Corps.
- Honorably discharged as a Marine Sergeant.