Changhun **Oh**

GRADUATE STUDENT

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Summary

Interested in devising IT infrastructure to support those standing on the shoulders of giants, and learning new technologies and tools.

Work Experience

Teaching Assistant   *Sacheon, S.Korea*

TEACHING ASSISTANT   *Sep. 2022 - Present*

- 2022 Fall Semester, CS230(System Programming) TA
- 2023 Fall Semester, CS411(System for Artificial Intelligence) Head TA
- 2024 Fall Semester, CS230(System Programming) TA

R.O.K.A 3rd Flight Training Wing   *Sacheon, S.Korea*

INFORMATION SECURITY SPECIALIST (COMPULSORY MILITARY SERVICE)   *Jan. 2020 - Oct. 2021*

- Sergeant in the Republic of Korea Air Force.
- My responsibilities as an Information Security Specialist were to protect and maintain military networks and devices.

MSRA - Microsoft Research Asia Alumni   *Beijing, China*

RESEARCHER   *June. 2018 - Aug. 2018*

- Full-time Research Intern in MSRA System & Networking Group.
- My research topic is related to blockchain especially Ethereum.
- Handling Big data, Ethereum network flow and topology were analyzed.

Honors & Awards

INTERNATIONAL

2025	**Student Travel Grant**, ISCA 2025	*Japan*
2024	**Student Travel Grant**, ISCA 2024	*Argentina*
2019	**Finalist**, 0CTF Final	*China*
2019	**Finalist**, DEFCON 27th CTF Hacking Competition World Final	*USA*
2017	**Finalist**, DEFCON 25th CTF Hacking Competition World Final	*USA*

DOMESTIC

2023	**Best TA Award**, Education 4.0 Q	*KAIST*
2022	**1st Place**, Best presentation award in the senior research project	*POSTECH*
2021	**1st Place**, Best Cyber Warrior Competition	*ROKAF*
2019	**1st Place**, PPC - Postech Programming Contest	*POSTECH*
2016-2022	**Scholarship**, Scholar of the National Academic Excellence Scholarship for Science and Engineering	*KOSAF*
2016-2017	**Scholarship**, GLP - Global Leadership Project	*POSTECH*

Publications

Neo: Real-Time On-Device 3D Gaussian Splatting with Reuse-and-Update Sorting Acceleration   *Pittsburgh, USA*

C. OH, S. OH, J. HWANG, Y. KIM, H. SHARMA, J. PARK   *ASPLOS 2026*

- It proposes a hardware-algorithm co-designed solution for 3DGS

MixDiT: Accelerating Image Diffusion Transformer Inference with Mixed-Precision MX Quantization   *None*

D. KIM, J. HWANG, **C. OH**, J. PARK   *CAL 2025*

- It proposes a hardware designed solution for image diffusion

DACAPO: Accelerating Continuous Learning in Autonomous Systems for Video Analytics   *Buenos Aires, Argentina*

Y. KIM, **C. OH**, J. HWANG, W. KIM, S. OH, Y. LEE, H. SHARMA, A. YAZDANBAKHSH, J. PARK   *ISCA 2024*

- It proposes a hardware-algorithm co-designed solution for continuous learning

Education

KAIST (Korea Advanced Institute of Science and Technology)   *Daejeon, S.Korea*

Ph.D. in Graudate School of AI Semiconductor   *Sep. 2024 - Present*

- Adviser: Prof. Jongse park

KAIST (Korea Advanced Institute of Science and Technology)   *Daejeon, S.Korea*

M.S. in School of Computing   *Sep. 2022 - Aug. 2024*

- Adviser: Prof. Jongse park
- Cumulative GPA: 4.20 / 4.30

POSTECH (Pohang University of Science and Technology)   *Pohang, S.Korea*

B.S. in Computer Science and Engineering   *Mar. 2016 - Aug. 2022*

- Cumulative GPA: 3.77 / 4.30

Extracurricular Activity

POSCAT (POSTECH Computing Algorithms Team)   *Pohang, S.Korea*

Member   *Mar. 2016 - Aug. 2019*

- Gained expertise in algorithm and AI areas.
- Participated on several algorithm competition.
- Prepared POSTECH-KAIST Science War Festival in field of AI.

PLUS (Laboratory for UNIX Security in POSTECH)   *Pohang, S.Korea*

Member   *Mar. 2016 - Aug. 2022*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.