

EDUCATION	<p>Department of Computer Science and Engineering, Yonsei University Seoul, Korea <i>MSc/PhD Student in Computer Science</i> 2022 - Present</p> <ul style="list-style-type: none"> • Advisor: Prof. Youngsok Kim • Research area: System Software, Database System, Processing-in-Memory <p>Department of Computer Science and Engineering, Yonsei University Seoul, Korea <i>BSc in Computer Science</i> 2017 - 2022</p>
PUBLICATIONS	<ol style="list-style-type: none"> 1. Chaemin Lim, Suhyun Lee, Jinwoo Choi, Kwanghyun Park, Jinho Lee, Joonsung Kim, and Youngsok Kim. FaScalSQL: A Fast and Scalable GPU-Accelerated SQL Query Engine for Out-of-Memory Tables. <i>In Proc. 42nd IEEE International Conference on Data Engineering (ICDE)</i>, 2026. 2. Chaemin Lim, Suhyun Lee, Jinwoo Choi, Joonsung Kim, Jinho Lee, Youngsok Kim. DMO-DB: Mitigating the Data Movement Bottlenecks of GPU-Accelerated Relational OLAP. <i>In Proc. 34th International Conference on Parallel Architectures and Compilation Techniques (PACT)</i>, 2025. 3. Suhyun Lee, Chaemin Lim, Jinwoo Choi, Heelim Choi, Chan Lee, Yongjun Park, Kwanghyun Park, Hanjun Kim, and Youngsok Kim. SPID-Join: A Skew-resistant Processing-in-DIMM Join Algorithm Exploiting the Bank- and Rank-level Parallelisms of DIMMs. <i>In Proc. ACM on Management of Data (SIGMOD)</i>, 2025. 4. Chaemin Lim, Suhyun Lee, Jinwoo Choi, Jounghoo Lee, Seongyeon Park, Hanjun Kim, Jinho Lee, and Youngsok Kim. Design and Analysis of a Processing-in-DIMM Join Algorithm: A Case Study with UPMEM DIMMs. <i>In Proc. ACM on Management of Data (SIGMOD)</i>, 2023. 5. Jinwoo Choi, Jaeyeon Kim, Chaemin Lim, Suhyun Lee, Jinho Lee, Dokyung Song, and Youngsok Kim. GuardiaNN: Fast and Secure On-Device Inference in TrustZone Using Embedded SRAM and Cryptographic Hardware. <i>In Proc. 23rd ACM/IFIP International Middleware Conference (Middleware)</i>, 2022. 6. Jounghoo Lee, Yeonan Ha, Suhyun Lee, Jinyoung Woo, Jinho Lee, Hanhwi Jang, and Youngsok Kim. GCoM: a detailed GPU core model for accurate analytical modeling of modern GPUs. <i>In Proc. 49th Annual International Symposium on Computer Architecture (ISCA)</i>, 2022.
PROJECTS	<p>Optimizing Database Systems Using Processing-in-Memory Hardware <i>National Research Foundation of Korea (NRF)</i> 2024 - 2026</p> <p>Exploring Quality-Aware NN Scheduler <i>LG Electronics</i> 2024 - 2025</p>
AWARDS AND HONORS	<ul style="list-style-type: none"> • Scholarship NRF Fellowship Program for Doctoral Students. 2024.06 • Best Poster Award Computer System Society Academic Conference 2023.02
EXPERIENCE	<p>Teaching Assistant: <i>Computer Architecture (CSI3102)</i>, 2023S <i>Logic Circuit Design (CSI2111)</i>, 2022F <i>Information Security (CSI4109)</i> 2022S</p>

SKILLS

Languages: Korean, English.

Programming: C/C++, Python.