

Junhyeok Park

Computer System Researcher

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Web: junttang.github.io / [Github](#) / [hyeok's log](#)
Status: not seeking employment, MS program anticipated

PROFILE

TIMING BEATS SPEED

Hello, I'm Junhyeok Park, a.k.a junttang.
Now I'm an undergraduate CSE student in Sogang University
and a research assistant in DISCOS Laboratory.
My goal is becoming an awesome system researcher who
makes the world convenient.

EDUCATION

SOGANG UNIVERSITY

B.S in [Computer Science and Engineering](#) (2017.03–present)
→ CGPA: 3.85/4.30 (major only: 4.10/4.30)

WORK EXPERIENCE

RESEARCH ASSISTANT

DISCOS (Data-Intensive Computing & Systems)

Laboratory, Sogang University, Seoul (2023.01-present)

UG Internship with BS/MS integrated program

Contributions.

- **Key-Value Store.** I researched various forms of persistent key-value stores running on different systems, including the traditional host-side I/O stack, computational storage, disaggregated network architecture equipped with user-level device (e.g. NVMe) drivers such as Intel SPDK, and more.
 - **Heterogeneous Computing.** I'm also dedicated to studying emerging technologies like CXL (Compute eXpress Link), DPU (Data Processing Unit), HBM (High Bandwidth Memory), PIM (Processing In Memory), and more, which target future heterogeneous computing environments.
 - **Research Work Experience.** I have learned methodologies in conducting research and developing papers in the field
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of computer science and systems research. This includes how to advance and articulate progress in my work, as well as how to effectively communicate these findings to others.

PUBLICATION

RESEARCH PAPER

OctoKV: An Agile Network-based Key-Value Storage System with Robust Load Orchestration (Y.Park, **J.Park**, A.Khan, J.Park, C.Lee, W.Chung, Y.Kim) [MASCOTS '23] ([pdf](#)) ([talk](#))

Contributions.

- As a second author, I contributed to enhancing this work both theoretically (manuscript) and visually (figures). One of my early research & paper experiences.

SERVICE +
PROJECT

SERVICE

TravelPT: ChatGPT-based Travel Guide Kakao Channel Application (not-in-service now) ([link](#))

Contributions.

- I led the design of the service architecture, focusing on optimizing a runtime text-based GPT fine-tuning for response correction (e.g. restaurants, tourist sites, etc).

PROJECT

All projects are listed in [Github](#)

AWARD

BEST EXCELLENCE AWARD at the 2023-1 Sogang Convergence Technology Competition (TravelPT) ([link](#))

SKILLS +
INTERESTS

BASIC TOOLS

C, C++, Linux, Python, Assembly, Xilinx FPGA, MySQL, Git, MS Office, Photoshop, OFS, Node.js, Firebase, JavaScript, draw.io, and etc

Research Interests

Key-Value Store, Computational Storage, NVMe, CXL, PCIe, SPDK, DPU, System Optimization, Disaggregation, HBM, Heterogeneous Computing, and etc

LANGUAGE

KOREAN: fluent (native)

ENGLISH: advanced