Junhyeok Park

Computer System Researcher

35, Baekbeom-ro, Mapo-gu, Seoul, Republic of Korea, 04107
Contact: junttang@sogang.ac.kr / LinkedIn / instagram
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

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 TOOL** C, C++, Linux, Python, Assembly, Xilinx FPGA, MySQL, Git, MS Office, Photoshop, OFS, Node.js, Firebase, JavaScript, and etc. **RESEARCH INTEREST** Key-Value Store, Computational Storage, NVMe, CXL, PCIe, SPDK, DPU, System Optimization, Disaggregation, HBM, Heterogeneous Computing, and etc. **CERTIFICATE** KAIT Linux Master II, ICQA Network Manager II, CODE PLUS Algorithm Basics, TOEIC 940pts & Speaking Level-7
LANGUAGE	**KOREAN:** fluent (native) **and ENGLISH:** advanced