Hyeongjun Park

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EDUCATION

Sungkyunkwan University (SKKU)   Suwon, South Korea
B.S in Computer Science and Engineering   Mar. 2016 - Feb. 2023
  - GPA: 4.11/4.5(Overall)   4.23/4.5(Major)

RESEARCH INTEREST

Storage Systems, Database Systems, Distributed Systems

PUBLICATION

[1] **ListDB: Union of Write-Ahead Logs and SkipLists for Incremental Checkpointing on Persistent Memory**
Wonbae Kim, Chanyeol Park, Dongui Kim, <u>Hyeongjun Park</u>, Young-ri Choi, Alan Sussman, Beomseok Nam
16th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2022), July. 2022.

[2] **VeloxDFS: Streaming Access to Distributed Datasets to Reduce Disk Seeks**
Sunghwan Ahn, <u>Hyeongjun Park</u>, V. A. Boleaz Sanchez, Deukyeon Hwang, Wonbae Kim, Alan Sussman, Beomseok Nam
22nd IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing (CCGrid 2022), May. 2022.
- **Co-first author**

RESEARCH EXPERIENCE

Data Intensive Computing Lab, SKKU   Suwon, South Korea
Undergraduate Research Intern   Mar. 2018 - Dec. 2020

- Conducted research on a key-value store that leverages the byte-addressability and high-performance of DCPM to resolve the write amplification and write stall problem [1].
- Conducted research on a shared storage systems for immutable data by leveraging the distance connectivity of NVMe over Fabrics (NVMe-oF).
- Designed and implemented, *VeloxDFS* a distributed file system that coordinates concurrent I/O requests from multiple clients by dynamically adjusting the size of partitioned blocks to mitigate the skew problem [2].

Parallel and Distributed Computing Lab, University of Maryland   College Park, Maryland
Visiting Research Intern   Jul. 2019 - Aug. 2019

- Conducted research in the area of distributed file systems, especially on performance analysis of Hadoop Distributed File System (HDFS) and I/O scheduling overhead of Yet Another Resource Negotiator(YARN) using *TestDFSIO* and various monitoring tools.

WORK EXPERIENCE

Company LSC Systems   Suwon, South Korea
Leader Developer of industry-university cooperation project, 5 members   May. 2019 - Dec. 2019
- Developed straggler identification and diagnosis model for data center using Scikit-learn and Tensorflow.

Company Entasys   Suwon, South Korea
Leader Developer of industry-university cooperation project, 5 members   May. 2018 - Dec. 2018
- Developed parallel linear matrix solver using OpenMP library and furtherly elaborated to cluster-level using MPI library.

TEACHING EXPERIENCE

Teaching Assistant, SKKU   Spring 2020
Basis and Practice in Programming

VOLUNTEERING

World Friends ICT Voluenteers Program 2018   Vientine, Laos
Vice Team Leader, 6 members   Jul. 2018 - Aug. 2018
- Educated Arduino programming for middle and high school students and teachers sponsored by Laos Ministry of Education.
- In charge of self car making project using Arduino and breadboard.

Suil High School Software Mentoring   Suwon, South Korea
Team Leader, 3 members   May. 2018 - Sep. 2018
- Educated basic C programming for Suil High School students who want to major in computer science after graduation.

HONORS AND SCHOLARSHIPS

Dean's List, Sungkyunkwan University	2017-2019
Software Scholarship, Sungkyunkwan University (merit-based)	Mar. 2016 - Present
Program-based Scholarship, Sungkyunkwan University	Spring. 2019
Student Success Scholarship, Sungkyunkwan University	Spring. 2019

SELECTED TERM-PROJECTS ON COURSEWORK

Embedded Temple Run   May. 2020 - Jun. 2020
Embedded Systems, 2 members
- Developed a running game with Linux Kernel Driver for GPIO buttons and OLED display on Rasberry Pi using Crosstool-NG toolchain.

Market Place For File Sharing   Apr. 2020 - Jun. 2020
Introduction to Database
- Developed a online market place for file sharing with JDBC using MySQL connector and Java.

Online Flea Market   Nov. 2019 - Dec. 2019

Web Programming

- Developed a online flea market website using MySQL, JSP, HTML/CSS and JavaScript.

Alarm application   Apr. 2019 - Jun. 2019

Mobile App Programming

- Developed an original android alarm application that analyzes user behaviors and reactions based on alarm-off duration using Java and Google Cloud Platform(GCP) Firebase.

REFERENCES

Beomseok Nam

Associate Professor

Computer Science and Engineering   bnam@skku.edu

College of Computing   https://dicl.skku.edu

Sungkyunkwan University (SKKU)

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