

Hyeongjun Park

(+82) 10 - 9192 - 4320

hj97hj94@g.skku.edu ♦ zzunny97@gmail.com

EDUCATION

Sungkyunkwan University (SKKU)

B.S in Computer Science and Engineering

- Cumulative GPA: Overall 4.11/4.5, Major 4.23/4.5

Suwon, South Korea

Mar. 2016 - Present

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, Hyeongjun Park, Young-ri Choi, Alan Sussman, Beomseok Nam

To appear in the 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, Hyeongjun Park, 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

Undergraduate Research Intern

Suwon, South Korea

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 a distributed file system, *VeloxDFS*, 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

Visiting Research Intern

College Park, Maryland

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

Leader Developer of industry-university cooperation project, 5 members

Suwon, South Korea

May. 2019 - Dec. 2019

- Developed straggler identification and diagnosis model for data center using Scikit-learn and Tensorflow.

Company Entasys

Leader Developer of industry-university cooperation project, 5 members

Suwon, South Korea

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

Basis and Practice in Programming

Spring 2020

VOLUNTEERING

World Friends ICT Volunteers Program 2018

Vice Team Leader, 6 members

Vientiane, Laos

Jul. 2018 - Aug. 2018

- Educated Arduino programming for middle & high school students and teachers.

Suil High School Software Mentoring

Team Leader, 3 members

Suwon, South Korea

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

Embedded Systems, 2 members

May. 2020 - Jun. 2020

- Developed a running game with Linux Kernel Driver for GPIO buttons and OLED display on Raspberry Pi using Crosstool-NG toolchain.

Market Place For File Sharing

Introduction to Database

Apr. 2020 - Jun. 2020

- 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

College of Computing

Sungkyunkwan University (SKKU)

bnam@skku.edu

<https://diel.skku.edu>**Last Update on Mar 21st. 2022**