Hyeongjun Park

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[Github: github.com/zzunny97]

EDUCATION

Sungkyunkwan University Suwon, South Korea

Bachelor's degree of Software, College of Computing *(Expected 02. 2021)*

· **GPA:** 4.1 / 4.5 (major 4.2, last semester 4.36)

· **Honors:** Scholarship for Academic Excellence **(Dean's list)** for *2018, 2019, 2020*

· **Coursework:** Parallel Computing, Operating Systems, Database, Networks, Embedded Systems, Algorithms, Data Structure, Computer Architecture, System Program, Artificial Intelligence, Programming Languages, Logic Circuit, Automata

PUBLICATION

· Sungwhan Ahn, **Hyeongjun Park**, Vicente A. Bolea Sanchez, Deukyeon Hwang, Wonbae Kim, Alan Sussman, and Beomseok Nam, "VeloxDFS: Coordinated Access to Distributed Datasets with Adaptive Partitioning", 14th USENIX Symposium on Operating Systems Design and Implementation **(OSDI 20)** - *under peer-review*

WORK & LEADERSHIP EXPERIENCE

Data Intensive Computing Lab undergraduate researcher [05. 2018 – present]

· Designed and implemented *VeloxDFS*, a distributed file system for big data processing frameworks

· *VeloxDFS* has compatible APIS with HDFS dynamically adjusts the size of partitioned block

· *VeloxDFS* employs a fine-grained logical partitioning scheme and each map task process various sized blocks based on its I/O consumption rate

· Visiting research intern, University of Maryland, College Park [07.2019 – 08.2019]

· Software stack: C++, Java, Hadoop

· https://github.com/DICL/VeloxDFS

LSC Systems Co-op Project Team Leader [05. 2019 – 12. 2019]

· Developed straggler identification and diagnosis model for cluster system

· Clustered straggler and identified the causes for straggler by decision classifier

· Software stack: Python, Scikit-learn, Ada-boost, Tensorflow

Entasys Co-op Project Team Leader [05. 2018 – 12. 2018]

· Developed linear matrix equation solver by Gaussian Elimination and LU decomposition

· Used OpenMP library and CGI library (for website) and achieved 8x faster compared to sequential code

· Furtherly improved by porting to cluster model using MPI library and achieved 40x faster compared to sequential code

· Software stack: C++/C, OpenMP, MPI, CGI

· https://github.com/zzunny97/LU-MPI

· https://github.com/zzunny97/LU-OpenMP

SKILLS, ACTIVITIES & INTERESTS

Programming: C++/C, Java, Python, Scala, Scripting language

Technologies/Environments: Linux, Hadoop, Spark, MySQL, MariaDB, Zookeeper, AWS, GCP, Docker, Android, Firebase, HTML/CSS

Language: Korean, English
Interests: Distributed systems, Big data processing frameworks, Parallel computing

REFERENCES

Prof. BeomSeok Nam, Associate Professor, Sungkyunkwan University
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