



M.S. CANDIDATE IN COMPUTER SCIENCE

D815, Engineering Hall 4, 50, Yonsei-ro, Seodaemun-gu, Seoul, 03722, Republic of Korea

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I am currently pursuing a Master's degree in Computer Science at Yonsei University. My research focuses on concurrent data structures for persistent memory. Specifically, I am working on the design and testing of the persistent, batch-based, lock-free queue for Intel Optane memory. My research involves developing scalable and efficient non-blocking data structures, ensuring persistence guarantees, devising safe memory reclamation schemes tailored for these data structures, and designing recovery mechanisms to maintain data integrity and consistency in the event of system failures.

Education

Yonsei University

Republic of Korea

M.S. IN COMPUTER SCIENCE

Mar. 2022 - Present

- · Supervisor: Prof. Bernd Burgstaller
- Embedded Systems Languages and Compilers (ELC) Lab

Yonsei University

B.S. IN COMPUTER SCIENCE

• Overall GPA: 3.53/4.3, Major GPA: 3.92/4.3

Republic of Korea Mar. 2017 - Feb. 2022

Experience_

ELC Lab at Yonsei University

Undergraduate Research Intern Supervised by Prof. Bernd Burgstaller

Republic of Korea

Jan. 2020 - Feb. 2022

- Profiling techniques for streaming frameworks in the cloud
- Heterogeneous memory architectures
- Testing and debugging support for Ethereum smart contracts at scale

Publications

INTERNATIONAL JOURNALS

PREPRINTS

Cloudprofiler: TSC-Based Inter-Node Profiling and High-Throughput Data Ingestion for Cloud Streaming Workloads

Shinhyung Yang, Jiun Jeong, Bernhard Scholz, Bernd Burgstaller

arXiv preprint, arXiv:2205.09325, 2023

DON: https://doi.org/10.48550/arXiv.2205.09325

DOMESTIC CONFERENCES

Scalable Off-The-Chain Testing of Ethereum Smart Contracts on a Cluster of Workstations

Jiun Jeong, Yeonsoo Kim, Seongho Jeong, Bernd Burgstaller

Proceedings of the Korea Computer Congress 2024 (KCC 2024), pp. 1624–1626, June 26-28, 2024, ICC Jeju, Jeju Island, Republic of Korea URL: https://www.dbpia.co.kr/journal/articleDetail?nodeId=NODE11862288

Projects

Smart Near-far Memory Architecture for Data-intensive Workloads

SAMSUNG DS DIVISION THROUGH THE YONSEI-SAMSUNG SEMICONDUCTOR RESEARCH CENTER (YSSRC)

Republic of Korea

Sep. 2020 - Present

Application and Toolchain Support for Processing-in-memory (PIM)

Institute of Information & Communications Technology Planning & Evaluation (IITP)

Republic of Korea
Apr. 2021 - Dec. 2023

LAST UPDATED: OCTOBER 20, 2024 JIUN JEONG · CURRICULUM VITAE 1

An Exa-scale Big Data Analysis Platform for Programmer Productivity and Performance on Clouds of Heterogeneous Multicore

Republic of Korea

NATIONAL RESEARCH FOUNDATION OF KOREA (NRF)

Jan. 2020 - Oct. 2020

Patents

Apparatus for Optimizing Code for Utilization of Process-In-Memory

Republic of Korea

Nov. 2023

BERND BURGSTALLER, HYUNMO SUNG, SEONGHO JEONG, JAY HWAN LEE, JIUN JEONG, AND SHINHYUNG YANG

- Korean Patent Application Number: 10-2023-0169862
- DOI: https://doi.org/10.8080/1020230169862

Awards_

2022 - 2023 Graduate Student Research Assistant Scholarship, Department of Computer Science, Yonsei University

Excellence Award, Software Capstone Design, Department of Computer Science, Yonsei University

2020 Excellence Award, Software Capstone Design, Department of Computer Science, Yonsei University Republic of Korea Republic of Korea Republic of Korea

Teaching

[CSI4104-01] Compiler Design

TEACHING ASSISTANT

Republic of Korea

Fall 2023

[CCO1100-{01, 02, 03}] Computer Programming

TEACHING ASSISTANT

Republic of Korea

Spring 2023

[CSI4104-01] Compiler Design

TEACHING ASSISTANT

Republic of Korea

Fall 2022

[CAC1100-01] Computer Programming

TEACHING ASSISTANT

Republic of Korea

Spring 2022

Language Proficiency

OPIc: Advanced Low (AL)

CERTIFICATE EXPIRATION DATE: 2026/09/04

Sep. 2024

Republic of Korea

· Highest score for OPIc

New TEPS: 472 / 600

EXPIRED: NO LONGER VALID

Republic of Korea

Sep. 2021

- · Listening Comprehension: 189 / 240
- Vocabulary: 40 / 60
- Grammar: 42 / 60
- Reading Comprehension: 201 / 240

· Listening Comprehension: 495 / 495

TOEIC: 925 / 990

EXPIRED: NO LONGER VALID

Republic of Korea

May. 2019

Reading Comprehension: 430 / 495

TOEFL iBT: 104 / 120

EXPIRED: NO LONGER VALID

- Reading: 27 / 30
- · Listening: 28 / 30
- Speaking: 22 / 30
- Writing: 27 / 30

Republic of Korea Aug. 2015