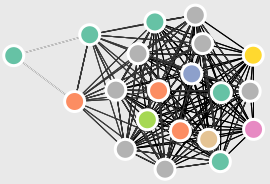
JINSEO CHOI

I am a CS M.S. student at Gachon university, advised by Prof. Donghyun Kang. I am currently working in Noslab. My research interests lie in computer systems, with a focus on operating systems, storage systems, and virtualization. Recently, I am interested in accelerating machine learning pipeline focused on computer systems. I like technical conversations about any CS field that gives insight. If anyone interested, please contact me.



EDUCATION

Current | 2023

M.S. student, Computer Engineering
Seongnam-si, Gyeonggi-do
Gachon University

- Focused on Machine learning Pipeline Optimization.
- Ran project to deep learning based marine P&ID digital transformation.
- Running project to implementation blockchain network on IoT device and stability evaluation.

2022 | 2018

B.S., Computer Engineering
Changwon-si, Gyeongsangnam-do
Changwon National University

- Studied Operating system, Computer network, Software engineering, Alogrithm, Data structure, Database.
- Focused on Linux kernel, Storage system.
- Ran project to designed a housing price index prediction model with local-economic data and developed housing policy establishment assist application for local-government officer.

2018 | 2016

A.S., Robot Mechatronics
Changwon-si, Gyeongsangnam-do
Masan University

- 3D modeling(CATIA), PCB design(OrCAD), Embeded programming(ATmega, ARM Cortex)

RESEARCH EXPERIENCE

Current | 2023

Master's course researcher
Noslab
Gachon University

- Developed machine learning pipeline parallelism framework between CPU and GPU.
- Ran project to deep learning based marine P&ID digital transformation.
- Analyzed the PyTorch framework with a focus on GPU launch.

CONTACT

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JS-Choi513
Blog
linkedin

LANGUAGE SKILLS

- Python
- C/C++
- Bash
- Java
- Javascript

Powered by Nick Strayer

The source code is available on github.com/JS-Choi513/cv.

Last updated on 2023-05-20.

2022 | 2022

Master's course researcher

Noslab — Changwon National University

- Analyzed TensorFlow with I/O interference.
- Developed data shuffle by parallelism.
- Analyzed Machine learning pipeline bottleneck.

2022 | 2018

Undergraduate Researcher

Noslab — Changwon National University

- Analyzed linux kernel I/O scheduler, Cgroups virtualization.
- Studied storage system(especially SSD).
- Test DiskSim, SSDSim and legacy code porting to current system.

PUBLICATIONS

2022

딥 러닝 훈련 시간 개선을 위한 쓰레드 기반 셔플링 기법

정보과학회 컴퓨팅의 실제 논문지(KTCP), Vol. 46, No 6, pp. 75-80, 2022.

- 최진서, 강동현

2022

훈련 및 검증 성능 개선을 위한 텐서플로우 병렬 처리 기법

정보과학회논문지(JOK), Vol. 49. No. 6, pp. 407-415, 2022.

- 최진서, 강동현

2022

딥 러닝 기반 테이블 검출 기법

한국컴퓨터종합학술대회 논문집(KCC), pp. 930-932, 2022.

- 최진서, 강동현

2022

Overlapped data processing scheme for Accelerating Training and validation in machine learning

IEEE Access, Vol. 10, pp. 72015-72023, 2022

- Jinseo Choi, Donghyun Kang

2022

딥 러닝 연산을 위한 GPU/CPU 성능분석

한국컴퓨터종합학술대회 논문집(KCC), pp. 1145-1147, 2022.

- 최진서, 강동현

2021

I/O 간섭에 의한 텐서플로우 성능분석

In Proceedings of the 한국컴퓨터종합학술대회 논문집(KCC), pp. 1145-1147, 2021.

- 최진서, 강동현
- 학부생 부문 우수논문상🏆

2021

Interleaved data processing scheme for optimizing tensorflow framework

In Proceedings of the IEEE 11th International Conference on Consumer Electronics(ICCE), pp. 1-3, Berlin, Germany, 2021.

• Jinseo Choi, Minseon Cho, Donghyun Kang

PATENTS

2022

병렬 처리 기반 훈련 및 검증 성능 향상 장치 및 방법

출원번호: 10-2022-0000138, 2022.01.03

• 최진서, 강동현

2022

딥 러닝 기술을 이용한 객체 인식 방법 및 시스템

출원번호: 10-2022-0122336, 2022.09.27

• 최진서, 강동현