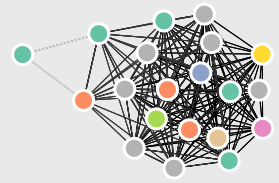


# JINSEO CHOI

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.
- 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

- Focused on Linux kernel, Storage system Studied Operating system, Computer network, Software engineering, Algorithm, Data structure, Database
- 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), Embedded 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. Analyzed the PyTorch framework with a focus on GPU launch.
- Ran project to deep learning based marine P&ID digital transformation.

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.

## CONTACT

✉ [jinseo@gachon.ac.kr](mailto:jinseo@gachon.ac.kr)

🐙 [JS-Choi513](#)

📝 [Blog](#)

in [linkedin](#)

## LANGUAGE SKILLS

Python

C/C++

Bash

Java

Javascript

Powered by Nick Strayer

The source code is available  
[ongithub.com/JS-Choi513/cv](https://github.com/JS-Choi513/cv).

Last updated on 2023-05-20.

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

- 최진서, 강동현

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, 2016.

- 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, 2021.

📍 Berlin, Germany

- 최진서, 조민선, 강동현