GDC, 2317 Speedway, Austin, TX 78712

 ■ donghyun@utexas.edu

Research Interests

Computer Systems, Systems for Machine Learning, Cloud Computing Systems

Education

The University of Texas at Austin

Ph.D. in Computer Science

• Advised by Professor Aditya Akella and Professor Daehyeok Kim

Seoul National University

M.S in Artificial Intelligence

Advised by Professor Byung-Gon Chun

Pohang University of Science and Technology (POSTECH)

B.S. in Convergence IT Engineering, Minor in Computer Science

Austin, TX USA

Aug 2023 - Present

Coard Courth Korso

Seoul, South Korea

Sep 2020 - Aug 2022

Dobana Couth Koros

Pohang, South Korea Mar 2014 - Aug 2020

Publications.

1. **Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors**, Joo Seong Jeong*, Jingyu Lee*, <u>Donghyun Kim</u>, Changmin Jeon, Changjin Jeong, Youngki Lee, Byung-Gon Chun. International Conference on Mobile Systems, Applications, and Services(MobiSys), 2022.

* equal contribution

Professional Experience

FriendliAI

Seoul, South Korea

Software Engineer

Jan 2022 - Jun 2023

Building a DL inference service for deploying and autoscaling large language models on cloud resources.

Software Platform Lab, SNU

Seoul, South Korea

Graduate Research Assistant

Jan 2020 - Aug 2022

- Developed *Band*, a coordinated Multi-DNN Inference system for mobile devices with heterogeneous processors.
- Developed Crane, a GPU cluster management system for DL training and AutoML workloads.

Teaching

Software Development Principles and Practices

Seoul National University

Teaching Assistant

Fall 2020, Fall 2021

• Led practice sessions, managed team projects, and graded assignments.

Honors and Awards

National Scholarship from ICT Creative Consilience Program

Mar 2014 - Aug 2019

Skills

Language Python, C++, C, Go, Rust **Framework** PyTorch, Tensorflow Lite **DevOps** Kubernetes, Docker Swarm

CI/CD Argo Workflow, Argo CD, Travis CI

Cloud AWS, GCP, Azure

August 13, 2023