

Ho Young Jhoo

GRADUATE STUDENT

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Education

Seoul National University

PH.D. IN COMPUTER SCIENCE AND ENGINEERING (ADVISOR: NUNO P. LOPES AND CHUNG-KIL HUR)

Seoul, South Korea

Aug. 2022 - Present

Seoul National University

M.S. IN COMPUTER SCIENCE AND ENGINEERING (ADVISOR: CHUNG-KIL HUR)

Seoul, South Korea

Mar. 2020 - Aug. 2022

Seoul National University

B.S. IN COMPUTER SCIENCE AND ENGINEERING (CUM LAUDE)

Seoul, South Korea

Mar. 2013 - Feb. 2020

Skills & Interests

Programming

Python, TypeScript/JavaScript, Scala, Java, C/C++

Frameworks

PyTorch, Node.js, Vue.js

Languages

Korean, English, Japanese

Interests

ML model optimization & parallelization, Compilers, ML framework implementations

Experience

FuriosaAI

SOFTWARE INTERN

Seoul, S.Korea

Apr. 2019 - Sep. 2019

- Surveyed the state-of-the-art ML compiler optimization techniques.
- Analyzed computation graphs and reschedule them to reduce peak memory consumption.

ROK Air Force Informantion System Management Wing

MOBILE & WEB DEVELOPER (DURING MILITARY SERVICE)

Air Force HQ, S.Korea

Sep. 2016 - Sep. 2018

- Analyzed daily web & mobile traffic (10GB per day) with Scala.
- Developed HTML5 Web app and Android applications with Java/Spring and Oracle DB.

LoadComplete

CLIENT PROGRAMMER & GAME SYSTEM DESIGNER

Seongnam, S.Korea

Sep. 2015 - Aug. 2016

- Unity3D/C# client programming on the games LabirinthiaX2 and RideZero.
- Designed the system and main concept of the game.
- Developed a core rhythm game engine and data handlers for music and sheet data.

Teaching

TA, Principles of Programming

SEOUL NATIONAL UNIVERSITY

Software Foundations Lab

2020 Fall, 2022 Fall

- Prepared code for class assignments and tests in Scala.

Publications

SMT-Based Translation Validation for Machine Learning Compiler

S. BANG, S. NAM, I. CHUN, **H. Jhoo**, J. LEE

- International Conference on Computer Aided Verification (CAV 2022)

A Static Analyzer for Detecting Tensor Shape Errors in Deep Neural Network Training Code

H. Jhoo, S. KIM, W. SONG, K. PARK, D. LEE, K. YI

- International Conference on Software Engineering: Companion Proceedings (ICSE-Companion 2022) - Poster track

Tag2Pix: Line Art Colorization using Text Tag with SECat and Changing Loss

H. KIM*, **H. Jhoo***, E. PARK, S. YOO (* EQUAL CONTRIBUTION)

- International Conference on Computer Vision (ICCV 2019)