

Ikhee Shin

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EDUCATION

University of Michigan

M.S. Electrical and Computer Engineering

Aug. 2021 – May 2023 (expected)

Ann Arbor, MI

Yonsei University

B.S. Electrical and Electronic Engineering

Mar. 2013 – Aug. 2019

Seoul, Korea

WORK EXPERIENCE

Research Engineer

Natural Language Processing Lab, Samsung Research

Aug. 2019 – July 2021

Seoul, Korea

- **On-device Natural Language Understanding Service** | *C++, Java, Python, TensorFlow*
 - * Developed the C++ based app for the Samsung Research's on-device natural language understanding service
 - * Developed the on-device model preparation pipeline for quantized model and model resources
 - * Cooperated with the overseas branch of Samsung Research (America) to train and compress models for two languages (e.g. Korean, English)
- **Dialogue State Tracking Research and Development** | *Python, Keras, Flask*
 - * Developed the baseline pre-processing and training code for experiments with span-based dialogue state tracking models
 - * Studied and experimented with data augmentation and multi-task learning techniques
 - * Maintained and co-designed data format and data collection strategy

Clova Machine Learning Intern

Clova AI Research, Naver Corp.

July 2018 – Aug. 2018

Seongnam, Korea

- **Face Attributes Classification** | *Python, PyTorch, Flask*
 - * Studied and experimented with convolutional neural network models (e.g. Resnet, Inception) on face attributes classification
 - * Studied and experimented with metric learning (e.g. contrastive, triplet) for face attributes classification

Clova Multimedia Intern

Clova AI Research, Naver Corp.

Jan. 2018 – June 2018

Seongnam, Korea

- **Text-to-Video Development** | *Python, PyTorch*
 - * Developed the baseline pre-processing and training code for the text-to-video model
 - * Implemented the state-of-the-art models (e.g. Obamanet) and applied it to internal data

Sergeant

Ground Operation Center, Republic of Korea Air Force

Feb. 2014 – Feb. 2016

Seosan, Korea

RESEARCH EXPERIENCE

Research Assistant (Advisor: Professor Hong-Goo Kang)

Yonsei University

Sept. 2018 – Dec. 2018

Seoul, Korea

- Studied and experimented with U-Net style architecture on music source separation
- Studied and experimented with self/cross attention to improve U-Net style architecture on music source separation

Research Assistant (Advisor: Professor Andrew Teoh Beng Jin)

Yonsei University

Sept. 2018 – Dec. 2018

Seoul, Korea

- Developed the baseline training code for experiments in training varied generated models (e.g. GAN, VAE) for image generation
- Studied and experimented with semi-supervised approaches for training GAN

AWARDS

Merit Scholarship from Yonsei University

Feb. 2017

TECHNICAL SKILLS

Languages: Python, C/C++, Java

Libraries: TensorFlow, Keras, PyTorch

Frameworks: Flask, JMeter