

Ikhee Shin

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INTERESTS

Natural Language Processing, Computer Vision, Signal Processing, Machine Learning, Deep Learning

EDUCATION

University of Michigan <i>M.S. Electrical and Computer Engineering</i>	Aug. 2021 – May 2023 (expected) Ann Arbor, MI
Yonsei University <i>B.S. Electrical and Electronic Engineering</i>	Mar. 2013 – Aug. 2019 Seoul, Korea

WORK EXPERIENCE

Research Engineer <i>Natural Language Processing Lab, Samsung Research</i>	Aug. 2019 – July 2021 Seoul, Korea
<ul style="list-style-type: none">• On-device Natural Language Understanding Service <i>C++, Java, Python, TensorFlow</i><ul style="list-style-type: none">* 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 <i>Python, Keras, Flask</i><ul style="list-style-type: none">* 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 <i>Clova AI Research, Naver Corp.</i>	July 2018 – Aug. 2018 Seongnam, Korea
<ul style="list-style-type: none">• Face Attributes Classification <i>Python, PyTorch, Flask</i><ul style="list-style-type: none">* 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 <i>Clova AI Research, Naver Corp.</i>	Jan. 2018 – June 2018 Seongnam, Korea
<ul style="list-style-type: none">• Text-to-Video Development <i>Python, PyTorch</i><ul style="list-style-type: none">* 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 <i>Ground Operation Center, Republic of Korea Air Force</i>	Feb. 2014 – Feb. 2016 Seosan, Korea

RESEARCH EXPERIENCE

Research Assistant (<i>Advisor: Professor Hong-Goo Kang</i>) <i>Yonsei University</i>	Sept. 2018 – Dec. 2018 Seoul, Korea
<ul style="list-style-type: none">• 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 (<i>Advisor: Professor Andrew Teoh Beng Jin</i>) <i>Yonsei University</i>	Sept. 2018 – Dec. 2018 Seoul, Korea
<ul style="list-style-type: none">• 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	

TECHNICAL SKILLS

Languages: Python, C/C++, Java
Libraries: TensorFlow, Keras, PyTorch
Frameworks: Flask, JMeter