

HyeongChan Kim

<http://kozistr.tech>

EDUCATION

Korea University of Technology and Education (KOREATECH) Mar 2016 –

CHALLENGES & AWARDS

6th place, **NAVER NLP Challenge**, SRL Task, 2018

4th / 13th place, **NAVER A.I Hackathon**, 2018

Final Round (Digital Forensic), **A.I R&D Challenge**, 2018.

2nd place (Demon), **Boot2Root** CTF, 2018

2nd place (Demon), **WhiteHat League 1**, 2017

3rd place (SeoulWesterns), **Harekaze CTF**, 2017

9th place (3rd price, A book as award), **TF-KR MNIST Challenge**, 2017

Kaggle Challenges

LB Top 3%, Kannada MNIST Challenge (28 / 1214), 2019.

LB Top 4%, MNIST Challenge, 2017.

LB Top 5%, Titanic Challenge, 2017.

LB Top 12%, Plant Seedlings Classification, 2017.

LB Top 25%, Invasive Species Monitoring, 2017.

CTFs & Conferences

Conference Staff, **POC**, 2016

Staff, Challenge Maker, **HackingCamp 15**, 2017

Staff, Challenge Maker, **CodeGate OpenCTF**, 2017

Staff, Challenge Maker, **HackingCamp 16**, 2017

Challenge Maker, **POX CTF**, 2017

Challenge Maker, **KID CTF**, 2017

Staff, **Belluminar CTF**, 2017

Staff, Challenge Maker, **HackingCamp 17**, 2018

PUBLICATIONS

[2] Kim et al, [CNN ARCHITECTURE PREDICTING MOVIE RATING FROM AUDIENCE'S REVIEWS WRITTEN IN KOREAN](#). Jan. 2020.

[1] zer0day, Windows Anti-Debugging Techniques (CodeEngn Archive) Sep. 2016.

INDUSTRY EXPERIENCE	Rainist , Seoul, South Korea	Nov 2019 – Present
	Machine Learning Engineer	
	<ul style="list-style-type: none"> Developed the card & bank account transaction category classification models, designed light weight purpose for the low latency. (now in service) Developed the machine learning model serving RESTful API server (utilizing k8s + open source project). Working as a full-time. 	
	VoyagerX , Seoul, South Korea	Jan 2019 – Sep 2019
	Machine Learning Engineer	
	<ul style="list-style-type: none"> Developed a robust speaker verification model for recognizing and diarizing the arbitrary speaker recorded from the noisy environment. Developed a hair image semantic segmentation / image in-paint / i2i domain transfer model for swapping hair domain naturally. Worked as an intern. 	
	ELCID , Pangyo, Korea	Jun 2016 - Aug 2016
	Penetration Test	
	<ul style="list-style-type: none"> Tested a network firewall and anti-virus product. Worked as a part-time job. 	
	OUT SOURCING	
	Korea University Course Information Web Parsing , ITL	July 2017 – Mar 2018
	AWS CloudTrail logger analyzer / formatter , ELCID	Sep 2019 – Oct 2019
RESEARCH EXPERIENCE	Heterogeneous Parallel Computing Lab , Cheonan, Korea	Sep 2018 - Dec 2018
	Undergraduate Research	
	<ul style="list-style-type: none"> Wrote a paper about improved TextCNN model for predicting movie rate. 	
TALKS	NAVER NLP Workshop 2018 , Pangyo, Korea	Dec 2018
	<ul style="list-style-type: none"> SRL Task, challenging without any domain knowledge 	
PROJECTS		
	Generative	
	Awesome Generative Adversarial Networks (Stars 460+)	July 2017 –
	Implemented lots of Generative Adversarial Networks in tensorflow 1.x. Novelties of	

this project are trying to implement lots of GANs which some of them are not released or in tensorflow 1.x based on the paper with some tweaks.

	gan-metrics	Mar 2020 –
	Implemented lots of metrics for evaluating GAN in pytorch.	
I2I Translation	Improved Content Disentanglement	Sep 2019
	Re-implement / tune 'Content Disentanglement' paper in pytorch.	
Image Inpainting	Improved Edge-Connect	Oct 2019
	Re-implement / tune 'Edge-Connect' paper in pytorch.	
Style Transfer	Neural Image Style Transfer	Mar 2018
	Implemented a neural image style transfer.	
Segmentation	Awesome Segmentation (Stars 55+)	Aug 2018
	Implemented lots of image semantic segmentation and ordered the papers.	
Optimizer	AdaBound Optimizer (Stars 40+)	Jan 2019
	Implemented AdaBound Optimizer (Luo et al. 2019) w/ some tweaks in tensorflow.	
	RAdam Optimizer (Stars 2+)	Sep 2019
	Implemented RAdam Optimizer (Liu et al. 2019) w/ some tweaks in tensorflow.	
Super Resolution	Deep Residual Channel Attention Network (Stars 35+)	Sep 2018
	Implemented a RCAN model in tensorflow.	
	Enhanced Super Resolution GAN (Stars 15+)	Jun 2019
	Implemented an ESRGAN model in tensorflow.	
NLP	Improved TextCNN (Stars 4+)	Dec 2018
	Implemented an improved TextCNN model (Kim et al. 2019)	
	Text Tagging	Dec 2018
	Implemented a text category classifier in tensorflow	
R.L	Rosseta Stone (Stars 400+)	Sep 2018-

Hearthstone simulator using C++ w/ some R.L.

I contributed to this project by implementing `feature extractor` and `neural network` in libtorch++.

Speech Synthesis

Tacotron

Jan 2019

Implemented a google tacotron speech synthesis in tensorflow.