

HyeongChan Kim

<http://kozistr.tech>

EDUCATION	Korea University of Technology and Education (KOREATECH)	Mar 2016 –
CHALLENGES & AWARDS	<p>6th place, NAVER NLP Challenge, SRL Task, 2018</p> <p>4th / 13th place, NAVER A.I Hackathon, 2018</p> <p>Final Round (Digital Forensic), A.I R&D Challenge, 2018.</p> <p>2nd place (Demon), Boot2Root CTF, 2018</p> <p>2nd place (Demon), WhiteHat League 1, 2017</p> <p>3rd place (SeoulWesterns), Harekaze CTF, 2017</p> <p>9th place (3rd price, A book as award), TF-KR MNIST Challenge, 2017</p> <p>Kaggle Challenges</p> <p>LB Top 4%, Kaggle MNIST Challenge</p> <p>LB Top 5%, Kaggle Titanic Challenge</p> <p>LB Top 25%, Kaggle Invasive Species Monitoring</p> <p>LB Top 10%, Kaggle Plant Seedlings Classification</p> <p>CTFs & Conferences</p> <p>Conference Staff, POC, 2016</p> <p>Staff, Challenge Maker, HackingCamp 15, 2017</p> <p>Staff, Challenge Maker, CodeGate OpenCTF, 2017</p> <p>Staff, Challenge Maker, HackingCamp 16, 2017</p> <p>Challenge Maker, POX CTF, 2017</p> <p>Challenge Maker, KID CTF, 2017</p> <p>Staff, Belluminar CTF, 2017</p> <p>Staff, Challenge Maker, HackingCamp 17, 2018</p>	
PUBLICATIONS	<p>[2] <u>Kim</u> et al, CNN Architecture predicting Movie Rating. Jan. 2019.</p> <p>[1] <u>zer0day</u>, Windows Anti-Debugging Techniques (CodeEngn Archive) Sep. 2016.</p>	
INDUSTRY EXPERIENCE	VoyagerX , Seoul, South Korea	Jan 2019 – Sep 2019
	Machine Learning Engineer	

- Developing a robust Speaker Verification model and etc for recognizing and diarizing the arbitrary speaker recorded from the noisy environment.
- Developing a hair image semantic segmentation / image in-paint / i2i domain transfer model for swapping hair domain naturally.
- Working as an intern.

ELCID, Pangyo, Korea

Jun 2016 - Aug 2016

Penetration Test

- 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

RESEARCH EXPERIENCE

Heterogeneous Parallel Computing Lab, Cheonan, Korea

Sep 2018 - Dec 2018

Undergraduate Research

- Wrote a paper about improved TextCNN model for predicting movie rate.

TALKS

NAVER NLP Workshop 2018, Pangyo, Korea

Dec 2018

- SRL Task, challenging without any in-domain knowledge

PROJECTS

Generative

Awesome Generative Adversarial Networks (Stars 410+)

July 2017 –

Implemented lots of Generative Adversarial Networks in tensorflow. Novelties of this project are trying to implement lots of GANs which some of them are not released or in tensorflow based on the paper with some tweaks.

I2I Translation

Improved Content Disentanglement

Sep 2019

Re-implement / tune 'Content Disentanglement' paper in pytorch.

Style Transfer

Neural Image Style Transfer

Mar 2018

Implemented a neural image style transfer.

Segmentation

Awesome Segmentation (Stars 40+)

Aug 2018

Implemented lots of image semantic segmentation and ordered the papers.

Optimizer

AdaBound Optimizer (Stars 30+)

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 30+)

Sep 2018

Implemented a RCAN model in tensorflow.

Enhanced Super Resolution GAN (Stars 9+)

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 330+)

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.

REFERENCES