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

Kaggle Challenges
  LB Top 4%, Kaggle MNIST Challenge
  LB Top 5%, Kaggle Titanic Challenge
  LB Top 25%, Kaggle Invasive Species Monitoring
  LB Top 10%, Kaggle Plant Seedlings Classification

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. Jan. 2019.
[1] zer0day, Windows Anti-Debugging Techniques (CodeEngn Archive) Sep. 2016.

INDUSTRY EXPERIENCE

Rainist, Seoul, South Korea   Nov 2019 – Present
Machine Learning Engineer

- Working as a full-time.

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 440+)**   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.

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 45+)**	Aug 2018
	Implemented lots of image semantic segmentation and ordered the papers.	
Optimizer	**AdaBound Optimizer (Stars 35+)**	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 10+)	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 350+)**	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