

Interests

Deep Learning, Machine Learning, Model Compression
Computer Vision, Robotics

Languages

Korean -----Native
English -----Intermediate

Education

Pusan National University

Bachelor 2014.03 ~ 2019.02

Major: Computer Science & Engineering

Career

Upstage

Intern 2021.08 ~ 2021.11

Model Compression

- +PyTorch to TensorRT conversion
- +Quantization

OCR Serializer Develop

N Tech Service

Intern 2019.07 ~ 2019.08

Concert Booking Service

- +Back-end with JAVA Spring
- +Front-end with JS, HTML, CSS

Education Clubs

UnToc

*Project & Seminar Club
for Computer Science & Engineering students
2015.07 ~ 2016.09*

Develop Home Page

- +Front-end with zero-board
- +Back-end with PHP, MySQL

Keeper

*Computer Security Club in Pusan National Univ
2017.03 ~ 2019.02*

T.A

- +Reverse Engineering
- +Embedded System

Scholar & Honors

Scholarship	2014, 2 nd semester 2016, 1 st semester
LG Vulnerability Detection Certificate	2016.12.12
Special Prize in Codegate Hacking Video Competition	2017.04.18
Grand Prize in 2018 KISA Security hackathon	2018.07.11

Skills

Language	Python, C++/C, JAVA
Libraries/Platforms	PyTorch, ROS, CUDA C/C++
Develop Environment	Linux, Windows, GIT

Project & Study

Neural Architecture Search

2021.05 ~ 2021.06

🔗 **NAS Project** [\[github URL\]](#) 🔗 **RPI Project with NAS Project** [\[github URL\]](#)

[\[Pytorch\]](#) [\[Optuna\]](#) [\[OpenCV\]](#) [\[tensorflow lite\]](#) [\[Raspberry PI\]](#) [\[Flask\]](#)

- + Develop model architecture search algorithms to get models more efficient
- + Develop converting modules Pytorch to TensorFlow Lite
- + Experiment on model pruning

Recommendation System Study with kakao arena

2021.03 ~ 2021.04

🔗 **Recommendation System** [\[github URL\]](#)

[\[Pytorch\]](#) [\[Python\]](#) [\[pandas\]](#) [\[numpy\]](#)

- + Implement ConvMF (ref: ConvMF for Document Context-Aware Recommendation)
- + Implement Matrix Factorization

Indoor Delivery Service with Robot

2018.04 ~ 2018.11

[\[Python\]](#) [\[ROS\]](#)

- + Implement SLAM algorithms with Lidar sensor
- + Develop control module for variable sensors (motor, Lidar etc)

Object Detection & Semantic Segmentation

2021.04 ~ 2021.05

🔗 **Obd & Semantic Segmentation** [\[github URL\]](#)

[\[PyTorch\]](#) [\[OpenCV\]](#) [\[torchvision\]](#) [\[mmdet\]](#)

- + Develop augmentation module for image dataset increasement
- + Utilize Swin-Transformer & HRNet

Smart Farm with Block-chain for Security

2018.05 ~ 2018.06

[\[PyTorch\]](#) [\[Ethereum\]](#) [\[Node JS\]](#) [\[Web3\]](#) [\[HTML\]](#) [\[CSS\]](#)

- + Develop Node JS server showing status of smart farm
- + Develop front-end page monitoring status of smart farm
- + **Won Grand Prize in 2018 KISA security hackathon**

Experiments

Boost Camp AI Tech 1st

2021.01 ~ 2021.06

AI BoostCamp (Naver Connect)

- + Learn Basic AI knowledge (mathematics, python programming, machine learning)
- + Enhance collaborative and communication skills with teammates
- + Learn ways to improve model performance through competitions

Develop with Google 2nd

2018.01 ~ 2018.02

Google Korea

- + Study various areas about computer science & engineer (web, IoT, android etc)
- + Learn coworking skills with github

Best of the Best Vulnerability Analysis Track 5th

2016.07 ~ 2017.03

KITRIE

- + Learn vulnerabilities analysis
- + **Project: Vulnerability Attack to Forensic Analysis**
 - + Analyze network vulnerabilities
 - + Analyze hardware system vulnerabilities
 - + Obtain LG vulnerability detection certification
 - + **Present at TROOPERS 2017, HITCON 2018(presenter: JoMinJung) etc**