

Interests

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

Languages

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

Education

Pusan National University

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 students who are in
Computer Science & Engineering

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

Educate the Freshman

- + Reversing 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 Hacker-ton	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 search algorithms to get models more efficiently
- + Develop converting modules Pytorch to TensorFlow Lite
- + Experiment pruning models

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 code for variable sensors (motor, Lidar and so on)

Object Detection & Semantic Segmentation

2021.04 ~ 2021.05

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

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

- + Develop copy&paste module for image dataset increasement
- + Use 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 to show status of smart farm
- + Develop front-end to monitor status of smart farm
- + **Grand Prize in 2018 KISA security Hacker-ton**

Experiments

Boost Camp AI Tech 1st

2021.01 ~ 2021.06

AI BoostCamp (Naver Connect)

- + Learn AI Basic (mathematics, python programming, machine learning)
- + Grow collaborative skills by peer section and communicating with teammates
- + Learn how 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...)
- + Learn how to use github

Best of the Best Vulnerability Analysis Track 5th

2016.07 ~ 2017.03

KITRIE

- + Learn how to analysis vulnerabilities
- + **Project: Vulnerability Attack to Forensic Analysis**
 - + Analyze network vulnerability
 - + Analyze hardware system vulnerability
 - + LG Vulnerability Detection Certification
- + **Present at TROOPERS 2017, HITCON 2018(presenter: JoMinJung) and so on**