JoMinJung Sophie

E-mail hack2kong@gmail.com **Phone** +82)10-6830-6667

Git-hub happyBeagle

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, 2nd semester 2016, 1st 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
2021 SOChallenge Track1. Small OBD 1st degree	2021.12.10

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**