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Hojin Jung

INTERESTS

Robotics, Reinforcement Learning, Black Box Function Optimization

EDUCATION

Korea University   Mar.2019 — Present
Undergraduate Student   *Seoul, Korea*

- Bachelor of Cyber Security
- Total GPA of 4.07 / 4.5

Seoul Science High School   Mar.2016 — Feb.2019
                                                                                                                Seoul, Korea

RESEARCH EXPERIENCE

AIR Lab, Korea University   Jun. 2021 — Oct. 2022
Research Intern (Adviser: Professor Sangkyun Lee)   *Seoul, Korea*

- Developed social network analysis forensic tool and developed a novel algorithm for detecting malware.

SOR Lab, Seoul University   Mar. 2022 — Feb. 2023
Research Intern (Adviser: Professor Yunheung Paek)   *Seoul, Korea*

- Found vulnerability that can change cluster in clustered federated learning and implemented recent Differential Privacy algorithms with PyTorch.

Intelligent mobile manipulation Lab, Seoul University   Jul. 2023 — Present
Research Intern (Adviser: Professor Beomjoon Kim)   *Seoul, Korea*

- Developing algorithms that can boost Monte Carlo tree search by changing exploration constant every time step.

WORK EXPERIENCE

Corca   Dec. 2022 — June. 2023
SW Engineer   *Seoul, Korea*

- Build a scalable model deployment and testing system.

PUBLICATIONS

Deobfuscation Processing and Deep Learning-Based Detection Method for PowerShell-Based Malware.
Hojin Jung, Hyogon Ryu, Kyuwhan Jo, and Sangkyun. Lee
Journal of the Korea Institute of Information Security & Cryptology, 2022

Capturing Performance and Privacy by Assembling Avengers of Online Advertising.
Taehee Kim, Seungyun Baek, Taehyeon Jeon, Hojin Jung, Joonhong Kim, Taeho Lee
ACM RecSys Challenge Workshop, 2023

HONOR AND AWARDS

1st Place, Channel.io Hackathon   Mar. 2023

- Created a emoji plugin for chat based on diffusion model.

2th Place, Cyber Security AI·Bigdata Challenge - Malicious Powershell Script Detection Track   Oct. 2021 — Nov. 2021
4th Place, K-Cyber Security Challenge - Gamebot Detection Track   Oct. 2020 — Nov. 2020

EXTRA CURRICULAR ACTIVITIES

Deepest, Seoul National University   Sep. 2021 — Present
Regular Member   *Seoul, Korea*

- Participated in study groups for offline reinforcement learning.
- Gave lecture about recent deep learning paper.

DevKor - Software Development Club , Korea University   Feb. 2021 — Jan. 2022
Club President   *Seoul, Korea*

- Gave lectures and made assignments about web development with own material on weekly basis.
- Planned and organized a hackathon.

AI security Technology Development Training , KISA   Jun. 2020 — Oct. 2020
Graduate   *Seoul, Korea*

- Selected as an excellent trainee and received a K-Shield AI security certificate.

CERTIFICATIONS

K-Shield AI Security Certificate of Excellence   Nov. 2020

TECHANICAL SKILLS

Advanced	Go, Python, PyTorch, Pandas, Numpy, Git, HTML, Javascript, CSS, ReactJS, Unix, Docker, AWS
Moderate	C, C++, LaTeX, Django, MATLAB
Novice	Java

LANGUAGE PROFICIENCY

High intermediate level of **English** proficiency

- TEPS: 381 (level 2)

Native in **Korean**