Hyogon Ryu

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github.com/ugonfor | [Linkedin]

INTERESTS	Model Compression, Generative models, Multimodal models

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) — 2023.03 - 2025.02 (exp)
M.S. in Artificial Intelligence
Advisor: Prof. Hyunjung Shim

Korea University — 2019.03 - 2023.02
B.S. in Cyber Defense, GPA: 4.07/4.5

Korea Science Academy of KAIST — 2016.03 - 2019.02
High school for gifted, Major: Mathematics, Earth Science

WORK EXPERIENCE

Naver Corp. — 2022.01 - 2022.02, Remote
Software Engineer Internship, Dept. of Multimodal Applications
Project: Extracting Trivia Sentence from Unstructured Text Data and
Search Engine Improvement.

AI Research Lab, Korea University — 2021.01 - 2021.12
Undergraduate Research Student (Adviser: Sangkyun Lee)
Project: Energy Backdoor Attacks on Deep Learning Models

PUBLICATION

Conference

DGQ: Distribution-Aware Group Quantization for Text-to-Image Diffusion Models
Hyogon Ryu, NaHyeon Park, Hyunjung Shim
(Under Review)

Memory-Efficient Fine-Tuning for Quantized Diffusion Model
Hyogon Ryu, Seohyun Lim, Hyunjung Shim
European Conference on Computer Vision (**ECCV**), 2024

Domestic (Korean)

**Deobfuscation Processing and Deep Learning-Based Detection Method
for PowerShell-Based Malware**
Hojin Jung, Hyogon Ryu, Kyuwhan Jo, Sangkyun Lee
Journal of The Korea Institute of Information Security & Cryptology, Vol. 32(3), 2022.06

HONORS & AWARD

AI Competition

- **CLOVA AI RUSH, NAVER** | #2 on Round1, #4 on Round2 - Individual   [News], 2021
  Project: Abusing Detection through Keyboard and Mouse Records (1R)
  Document classification for recommending UGC (User-Generated Content) in Naver Main (2R)
- **Cyber Security AI Bigdata Challenge** | #2 on Final - Team. 톤스캡   [News], 2021
  Project: Malicious Powershell Detection based on AI, Team Leader

Capture the Flag (Security Competition)

- **SECCON CTF** | #4 - Team. Korean   [Scoreboard], 2022
- **CODEGATE CTF Univ.** | #8 on Final - Team. roKyC   [News], 2022
- **DEFCON CTF** | #26 on Qual - Team. K-Students   [Scoreboard] [News], 2021

- **WCTF Belluminar China** | #8 on Final - Team. CyKor   [News], 2020
- **DEFCON CTF** | #8 on Final - Team. CyKor   [Scoreboard] [News], 2020
- **CODEGATE CTF univ.** | #6 on Final - Team. CyBie   [News], 2020

EXTRA CURRICULAR ACTIVITIES

E*5 KAIST, Startup competition of KAIST.   2024.03 - 2024.06
Leader of Team. Inpro, Developed an AI-based community monitoring solution and attempted business by contacting entertainment agencies, police departments, and government.

Global Cybersecurity Camp(GCC) Singapore, International cybersecurity camp   2023.02
Representative student of South Korea, Conducted technology sharing sessions with international students.

Deepest, Deep learning research group of Seoul National University.   2021.09 - 2022.08
Member of Group, Shared research papers weekly and conducted projects
Project: Stock price prediction using deep learning

CyKor, Cyber security research team of Korea University.   2019.09 - 2023.02
Vice President in 2021, Conducted research on information security and participate security competitions (CTF).

Best of the Best, Next-generation security leader training program of KITRI   2020.07 - 2021.03
Alumni of Vulnerability Analysis Track 9th.
Project: Developing a Fuzzer for Finding Vulnerability Triggered by URI Scheme.

Last Update: 2024.10.07