SIMO RYU 010-7125-9407 cloneofsimo@korea.ac.kr

 $Blog: \verb|fb.com/MLPaperFetchingCat| Github: \verb|github.com/cloneofsimo||$

HONORS AND AWARDS

2021 Google HashCode Qualification Round 4th Place in South Korea (55th Place WorldWide), Team boots jeon cats	Spring 2021
2020 Google HashCode Qualification Round 2nd Place in South Korea (61th Place WorldWide), Team boots jeon cats	Spring 2020
2021 MAIC Sleep AI Challenge 8th Place, Team BOREL	Spring 2021
ICPC Seoul Regional 17th Place, Team ————————————————————————————————————	Winter 2020
ICPC Seoul Regional 28th Place, Team Cat Is All You Need	Winter 2021
2021 University Students Contest of Mathematics (2nd Track) Silver Award	Winter 2021
2019 University Students Contest of Mathematics (2nd Track) Silver Award	Fall 2019
Samsung AI Challenge for Scientific Discovery 12th Place	Fall 2021
Graduation Thesis on Mathematics (Seoul Science High School) <u>Grand Prize</u>	Winter 2018
Research Task on Mathematics (Seoul Science High School) Grand Prize, Team participation	Winter 2017
2019 KCPC (1st Track) Excellence award	Winter 2019
31th Korean Mathematical Olympiad Silver Prize	Winter 2017
30th Korean Mathematical Olympiad Gold Prize	Winter 2016
제 2회 2020 금융 빅데이터 페스티벌, 보험금 분야 7th Place on Public Scoreboard, Team Financially Independent Cat	Fall 2020
DUCATION	

Korea University	March 2019 – February 2023
Double Major : Cyber Defense & Business School	
GPA: 3.94/4.5	Seoul, Korea
Seoul Science High School	March 2016 – December 2018

Seoul, Korea

Research Intern January 2020 – December 2020

Korea University Department of Information Security, SPAI Lab

Seoul, Korea

- Worked as research intern. Research on graph based mutual information model and sentiment analysis of major cryptocurrencies.
- Skillset: Spectral Graph theory, Information theory, Pytorch, Huggingface, networkx

Research Intern March 2021 – June 2021

Korea University Department of Information Security, Computer Systems Security Lab

Seoul, Korea

 Worked as research intern for binary code similarity project. Researched on code clone detection in malware

Machine Learning Engineer

April 2021 – November 2022 Seoul, Korea

Corca AI

- Promotion Optimization: Developed and deployed mixture of Deep learning and optimization algorithm for retail supply prediction and promotion optimization. Created over 5% increase in gross profit
- DSP-Side Advertisement Auction Bidder : Developed Multitasking CTR prediction model and control-based algorithm for calibrated & provably optimal bidder
- Skillset: Time series forecasting, Neural ODE, Convex optimization (& Mixed Integer Programming), ONNX, Pytorch, GCP

Machine Learning Engineer (Contract Work) Replicate

January 2022 – February 2023

Berkeley, US (Remote)

• Collaborated with Replicate to deploy efficient fine-tuning of Stable Diffusion model to the cloud, enabling customization of stable-diffusion with warm-starting cloud instances.

SKILLS

Languages: Korean(Native), English (Fluent, TOEIC score 970)

Algorithms, Problem Solving: C/C++

Machine Learning: Pytorch, Pytorch-lightning, Huggingface, LightGBM, onnx, BentoML

Optimization: or-tools

Web Frontend: React, Gatsby, Threejs (novice) **Web Backend**: Django, Nestjs, FastAPI (novice)