

Yeongjin Gwak

MACHINE LEARNING RESEARCHER · MACHINE LEARNING ENGINEER

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“Reinforcement learning could provide robust solutions for a broad range of complex problems.”

Education

Seoul National University

Seoul, S.Korea

M.S. IN PHYSICS AND ASTRONOMY DEPARTMENT

March 2015 - August 2020

- Researched computational approaches to calculate ultra cold quantum states under the supervision of Prof. Uwe R. Fischer.
- Thesis: “Benchmarking the Multiconfigurational Hartree Method by the Exact Wavefunction of Two Harmonically Trapped Bosons with Contact Interaction”

KAIST (Korean Advanced Institute of Science and Technology)

Daejeon, S.Korea

B.S. IN PHYSICS

February 2011 - February 2015

- Studied the dynamics and properties of academic citation networks under the supervision of Prof. Hawoong Jeong.

Skills

Machine Learning	PyTorch, Tensorflow, Reinforcement Learning, Computer Vision, Time-Series Forecasting
MLOps	GCP, AWS, Kubernetes, Docker, MLFlow, Wandb, Optuna, Plotly
Programming	Python, C, OpenMPI, JavaScript, LaTeX
Languages	Korean, English

Experience

acrossB

Seoul, S.Korea

DATA SCIENTIST

September 2022 - Present

- Developed a machine learning system for business products on a global logistics platform, including model infrastructure.
- Conducted research on forecasting stochastic future retail sales considering promotion, new product releases, and cannibalization effects.
- Developed a design pattern that is widely usable on Machine Learning/Deep Learning applications.
- Developed a cloud-based system for model serving and monitoring.

Korea Trade Network

Pangyo, S.Korea

SOFTWARE ENGINEER

May 2020 - September 2022

- Developed a prototype for Decentralized Identity (DID) using the Kubernetes cluster.
- Developed a connection between cloud public certificate service and a browser certificate service based on Vanilla JS.

Extracurricular Activity

Samsung Smart TV Hacking Project (SysSec-GoN)

Daejeon, S.Korea

MEMBER

March 2013 - February 2014

- Investigated security risks on the Samsung's Smart TV with SysSec Lab advised by Prof. Yongdae Kim
- Demonstrated system vulnerabilities using Flash Player

Computer Emergence Response Team in KAIST

S.Korea

TEAM LEADER

March 2013 - February 2014

- Investigated security risks in the KAIST network system

GoN, Network Security Club in KAIST

Daejeon, S.Korea

MEMBER

September 2011 - February 2015

- Studied securities vulnerabilities in computer system and web service

Honors & Awards

DOMESTIC

2017 **2nd Place**, Korea Super-Computing Challenge

Ulsan, S.Korea

Presentation

INCOGNITO Hacking Conference

SMARTPHONE GAME HACKING

- Introduced hacking technique using binary patching and MIIT attack.

S.Korea

2012

Personal Project

Trading Stock Market with A2C Algorithm

PERSONAL

- Leveraged A2C algorithm to predict stock prices.
- Created stock trading environment and utilized to train stock agent

S.Korea

2019 - 2020