

Wonah Kim

ANOMALY DETECTION · STREAM-PROCESSING

37 Nakdong-daero 550beon-gil, Saha-Gu, Pusan, Republic of KOREA

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Education

Dong-A University (DAU)

B.S. IN ARTIFICIAL INTELLIGENCE

- 2nd Year in Computer Engineering / AI Dept.

Pusan, S.Korea

Mar. 2022 - PRESENT

Skills

Programming	Python, C, C++, JAVA, LaTeX
Data Skill	SQL, Numpy/Pandas/Matplotlib, Apache Spark, PyTorch
SW Dev	MongoDB
Platforms	Linux, Docker
Languages	Korean, English

Experience

DAU Data Science Labs

UNDERGRADUATE RESEARCH INTERN

- Conducting researches in the fields of anomaly detection, graph modelling, stream-processing
- Conducting and assisting research with Prof. Jungkyu Han and Prof. Sejin Chun

Pusan, S.Korea

Apr. 2022 - Present

Building Scalable System of Factory Air Pollution Monitoring Project

MEMBER

- Aims to build a private cloud-based system for processing air pollutant big data
- Developed a scalable framework using Apache Spark and Docker

Dong-A University, S.Korea

Jul. 2022 - Dec. 2022

GNN-based Causal Anomaly Detection

MEMBER

- Detecting anomalies via Graph Neural Network-based model
- The relationships of time-series

Dong-A University, S.Korea

Jan. 2023 - Present

Professional Training

Busan IT Industry Promotion Agency

- Gained expertise in Artificial Intelligence areas, such as ML/DL, python for pre-processing, Knowledge Graph, OpenGL, OpenCV.
- Participated a hands-on problem-solving project

Pusan, S.Korea

Jul. 2022 - Aug. 2022

Busan IT Industry Promotion Agency

- Gained expertise in Graph Neural Network and various Deep Learning-based Anomaly Detection models
- Conducted an anomaly detection research

Pusan, S.Korea

Jul. 2023 - Aug. 2023

Honors & Awards

DOMESTIC

2022 **Busan Mayor Award**, Busan Marine Open-Data Utilization Bigdata Contest

Pusan, S.Korea

2022 **Encouragement Award**, Donga University Coding Competition

Donga University,
S.Korea

2023 **Encouragement Award**, Donga University DevDay

Donga University,
S.Korea

A Containerized Approach to Scaling-Up of Factory Air Pollution Monitoring Applications

SUYEON WANG, WONAH KIM, JUNGKYU HAN, SEJIN CHUN

- Journal of Korea Multimedia Society

S.Korea

Mar. 2023