

# Junho Hong

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## EDUCATION

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**Kookmin University, Seoul, South Korea**

2014 - 2021

*Bachelor of Science in Electrical Engineering*

## EXPERIENCE

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**Kakao Enterprise Corp., South Korea**

January 2022 - Present

*Machine Learning Engineer*

- Knowledge Graph AI Team, of Daum Kakao Search Engine  
<https://kg.kakaoi.ai/>

## PROJECTS

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**OASYS @ Kakao Enterprise Corp.**

Domain-Agnostic Automated System for Constructing Knowledge Base from Unstructured Text

<https://kakaenterprise.github.io/papers/sigkdd-oasys>

- Developed ML Training System for the Domain-Agnostic that features in Oasys
- Developed ML Pipeline for Knowledge Graph Inference

**KakaoWork Personalized Ranking System @ Kakao Enterprise Corp.**

<https://www.kakaowork.com/about/task>

- Developed ML Pipeline for calculating ranking score
- Optimized Kubernetes Worker Node utilization analyzing metrics (e.g. CPU, I/O bound, etc)
- Reduced Memory Usage for calculating ranking score
  - Increased capability to process the maximum number of user in each organization
  - Reduced Memory Usage from 50+ GBytes to 80+ MBytes for each Process in Parallel Processing  
(There were 625M {User-to-User: Score} Entries in that organization)

## TECHNICAL STRENGTH

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**Area:** MLOps, Parallel Processing, NLP, Knowledge Graph

**Tool:** Python, C/C++, Linux, Pytorch, Docker, Kubernetes, Kubeflow

## LANGUAGE PROFICIENCY

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**Korean:** Native

**English:** Fluent

**Japanese:** Conversational