

# Junho Hong

+82 10 9376 8421 | iuliet716@gmail.com

## 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 -

*Machine Learning Engineer*

- Search and Recommendation
- Knowledge Graph AI

## PROJECTS

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**NER for Knowledge Graph @ Kakao Enterprise Corp.**

- Improved ML Model Performance with Data manipulation
- Researched on Named Entity Recognition
- Developed Distributed Training System for Multi-GPU
- Developed API Server for Deploying ML Models
  - Improved TPS and Latency with Dynamic Batching and Converting ML Models
- BERT, LLM, Knowledge Graph
- Python, Pytorch, Bash Shell Script, Docker/Kubernetes
- Hadoop, Spark, TorchServe, Nvidia Triton, ONNX, TensorRT, FastAPI

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

- Developed ML batch Pipeline for calculating daily user-to-user ranking score
- Improved Throughput for calculating ranking score
  - Reduced the time complexity of calculating score in some large organizations
- Reduced Memory Usage for calculating ranking score
  - Increased the maximum number of user that could be calculated in each organization
- Multi-Processing, Distributed System, KG Embedding
- Python, Pytorch, Bash Shell Script, Docker/Kubernetes
- Redis, Hadoop, Apache Zookeeper

**Automated System for Constructing Knowledge Base from Unstructured Text @ Kakao Enterprise Corp.**

- Developed API Server for Deploying ML Models
  - Built a sequential system that handles multiple models
- Developed ML Pipeline for Data Collection, Training, Evaluation
- Python, Pytorch, Bash Shell Script, Docker/Kubernetes
- Hadoop, Spark, Kubeflow, TorchServe, Nvidia Triton, FastAPI

## TECHNICAL STRENGTH

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**Area:** Distributed/Parallel Systems, NLP, Machine Learning, Model Compression

**Tool:** Python, Pytorch, Linux, Docker, Kubernetes, Spark