YONGSIN PARK

SUMMARY

Strong background in natural language processing (NLP), language analysis, information retrieval (IR), information extraction (IE), and machine learning (ML). Skilled in data pre-processing and managing large datasets. Eager to contribute to innovative research and development by applying NLP and ML expertise to develop scalable, responsible AI systems that improve real-world user experiences.

PROFESSIONAL & RESEARCH EXPERIENCE

NLP Research Lab, NHN diquest, Inc.

Senior Researcher, Foundational Technologies Team Associate Researcher, Foundational Technologies Team

Seoul, South Korea *Mar.* 2022 - *Jun.* 2023 *Feb.* 2019 - *Feb.* 2022

Busan, South Korea

Sep. 2017 - Feb. 2019

• LANGUAGE ANALYSIS

- · Worked on high-throughput part-of-speech (POS) tagger, named entity recognition (NER) model, and speech act (SA) and sentiment classifier optimized for search engines, large-scale document processing, and chatbots.
- · Built a customizable and robust hybrid NER model (pattern matching + BERT). 1st Place, U+ BMT NER
- · Worked on spelling and spacing correction models using Bi-LSTM-CRF with statistical post-processing.

• Information Retrieval & Extraction

- · (Project Manager, PM) Developed a system for suggesting trending and related content based on user behavior.
- · (PM) Led conversation summarization in the legal domain using BART and reinforcement learning (RL).
- · Built a recommendation system for course and job opportunity matching for students.
- · Worked on machine reading comprehension (MRC) for Korean question answering (QA) using ELECTRA.

o Others

- · Worked on an MLOps platform for training, deploying, and managing machine learning (ML) models.
- · Developed tools for personal data extraction/masking and automating sentence completion to support criminal investigations.

University of Washington / Dong-A University

• LANGUAGE ANALYSIS

- · Co-developed DL models for POS tagging, NER, dependency parsing (DP), and semantic role labeling (SRL) using Bi-LSTM-CRF. Bronze Prize, Korean Information Processing System Competition
- · Built a SA classifier combining hand-crafted rules and a CNN-based classification model. *Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology*
- · (PM) Led creation of a NER dataset for extracting time entities from text. TimeWise NER

• Information Retrieval & Extraction

- · Built a lay summarization system for medical texts by fine-tuning Llama 3. Ist Place, BioNLP @ ACL 2025
- · Created a tool to generate emergency alerts in 15 languages by fine-tuning and constraining Llama 3.
- · Developed a Chrome extension to improve web accessibility for people with visual impairments using Llama 4.
- · Worked on MRC for English QA using language analysis results. Master's Thesis
- · Contributed to the "WiseWordNet" project by improving entity linking performance using Wikipedia data.

EDUCATION

Dong-A University

Master of Science in Computational Linguistics (NLP) (4.0/4.0)

University of Washington

Sep. 2024 - Present

Master of Science in Computer Engineering (3.91/4.0)

Bachelor of Engineering in Computer Engineering (3.97/4.0) Busan, South Korea Dong-A University *Mar.* 2014 - Aug. 2017

SKILLS