

Hoon Heo

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Research Interest

Natural Language Processing, Information Retrieval, Deep Learning

Education

Hankuk University of Foreign Studies (HUFS)

Seoul, South Korea

B.E. IN SOFTWARE CONVERGENCE / B.A. IN PORTUGUESE

Mar. 2015 - Aug. 2019

- **Cumulative GPA** : 4.23 / 4.50
- **Courses** : Computer Programming I (C lang), Computer Programming II (Python), Introduction to Computer Logic, Data Structure, Computer Architecture, Algorithm, Operating System, Computer Network, Database, Object-Oriented Programming, Design Pattern, Software Engineering, Data Science, Capstone Design

Professional Experience

LBox

Seoul, South Korea

MACHINE LEARNING ENGINEER INTERN

Jun 2020 - Present

- Automated **data pipeline** which collects legal precedent documents with **Image Classification** and **Object Detection** models
- Researched **semantic search system** which is used to retrieve **semantically similar** legal documents for user query

LXPER

Seoul, South Korea

MACHINE LEARNING ENGINEER INTERN

Mar 2020 - Jun 2020

- Developed **sized-fill-in-the-blank models** using Google's pretrained **T5** to generate TOEIC style questions
- Researched various models to **generate English questions** for Korean College SAT

HyperHire

Seoul, South Korea

MACHINE LEARNING ENGINEER INTERN

Oct 2019 - Jan 2020

- Developed a **resume parser** to parse unstructured resumes into structured json dataset
- Researched **resume embedding models** to rank the best applicant within job position

Awards & Scholarship

AI Starthon Finalist

Seoul, South Korea

NIPA / NAVER

Aug. 2019

- Participated in AI Starthon 2019, the biggest Artificial Intelligence competition in Korea with colleagues and solved three tasks out of twenty Machine Learning problems: Textual Similarity, Question Answering, Intent Classification
- Result: ranked **1st @Textual Similarity**, **2nd @Question Answering** and **5th @Intent Classification**

First Distinction Scholarship

Seoul, South Korea

HANKUK UNIVERSITY OF FOREIGN STUDIES

Spring 2018, Fall 2018

Teaching

NVIDIA Korea Deep Learning Institute

NVIDIA, Seoul, South Korea

TEACHING ASSISTANT

Jul. 2019

- Conducted **Teaching Assistant** role in the **Computer Vision** session @NVIDIA Korea Deep Learning Institute

Computer Programming II

HUFS, Seoul, South Korea

TEACHING ASSISTANT

Aug. 2018 - Feb. 2019

- Covered **basic Python programming**
- Ran laboratories and had office hours every week. Also answered students' questions in person and marked assignments

Language

Native in **Korean**, Fluent in **English**, Basic in **Portuguese**

Volunteering

Coding Volunteering group

Gyeong-gi, South Korea

MICROSOFT KOREA & JA KOREA

Sep. 2017 - Dec. 2017

- Taught kids **basic concept of computer programming** using **Unplugged Coding** education methods
- Helped students improve the capability of **Computational Thinking** by letting them design and develop the concept of Future smart city by themselves using 'Kodu Game Lab'

Extracurricular Activity

Monthly Natural Language Processing

Facebook Page

ADMINISTRATOR

Oct. 2019 - present

- Managing **Facebook Page** about the latest **Natural Language Processing** related news, articles, papers, and libraries.
- Currently over **2.4k** people follow this page and enjoy posts. [link]

AI Robotics Korea NLP Study

Seoul, South Korea

STUDY SESSION LEADER

Jul. 2019 - Nov. 2019

- Held **NLP study sessions** every week as a nlp study leader and organized the whole curriculum. [repo]
- Reviewed various papers and studied NLP libraries such as **spaCy** and **PyTorch**

Professional Course for Big Data Analysis

Suwon, South Korea

REGULAR MEMBER

Jun. 2018 - Aug. 2018

- Learned various open-source softwares which are used in **Data engineering** such as Hadoop eco-system(Hadoop, Flume, Hive, Hbase, Sqoop, Zookeeper), Kafka and Spark
- Participated in Big data analysis competition and won a **First prize in the class competition** and **5th in the whole-level competition**

Skills & Certificates

PROGRAMMING LANGUAGE: Python, Java, Dart, C, Shell Script, SQL

LIBRARIES: PyTorch, fairseq, transformers, spaCy, stanza, NLTK

DEVELOPMENT FRAMEWORK: Flask, Django, Flutter, Android, Express.js

[CERTIFICATES]

- Engineering Information Processing, National Technical Qualification Certificate, South Korea
- SQL Developer, Korea Data Agency, South Korea
- Natural Language Processing DLI Certificate, NVIDIA, United States [pdf]
- Computer Vision DLI Certificate, NVIDIA, United States [pdf]
- Multi-GPU DLI Certificate, NVIDIA, United States [pdf]