Hoon **Heo**

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Research Interest

Natural Language Processing, 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

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. Intended to reduce time and monetary cost of human conducted resume-screening system

Machina Black   *Seoul, South Korea*
Machine Learning Engineer Intern   *Jul 2019 - Aug 2019*
- Built **English-Korean parallel corpus** for Neural Machine Translation mainly for **legal domain-specific NMT**
- Researched and experimented with **extractive text summarization models** also for legal domain-specific tasks

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**

Best Big Data Analysis Award   *Gyeonggi, South Korea*
Gyeonggi Contents Agency   *Aug. 2018*
- Designed **chatbot** for educational purpose on frequently used English idioms and expressions extracted from massive English movie and TV drama script data using Kakao Plus-friend API, Django, Spark, etc. [repo]

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

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'

International Volunteering in Cambodia *Siem reap, Cambodia*

Dongguk University *Summer 2013*

- Taught basics on how to use computer, MS Word and MS Excel
- Ran a cultural exchange program between South Korea and Cambodia

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 **1.5k** people like 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 Big data analysis competition and won a **First prize in the class competition** and **5th in the whole-level competition**

Language

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

Skills & Certificates

Programming Language: **Python**, Dart, Java, C, SQL, R, Shell Script

Libraries: **PyTorch**, NumPy, fairseq, spaCy, KoNLPy, NLTK

Development Framework: Flutter, Django, 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]