



Soohwan Kim

AI RESEARCH ENGINEER · SOFTWARE DEVELOPER

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“Toward Human-like A.I.”

About Me

I would like to introduce myself as an artificial intelligence research engineer rather than a research scientist. My dream is to create conversational digital humans who people emotionally engage with - so I am very interested in deep learning techniques such as speech recognition, speech synthesis, and open-domain dialogue. Recently I began a startup with 5 co-founding members - all of them were my teammates at Kakao Brain. We named our startup TUNiB. We are looking for talented colleagues to work with. If you are interested, please don't hesitate to contact me.

Work Experience

TUNiB

CO-FOUNDER, AI RESEARCH ENGINEER

Gangnam, Seoul

Mar. 2021 - Present

- Research and development of artificial intelligence that enables human-like conversation
- Webpage: <http://www.tunib.ai/>

Kakao Brain

AI RESEARCH ENGINEER

Pangyo, Gyunggi

Nov. 2020 - Feb. 2021

- Research and development the latest NLP & Speech technology.
- Development of NLP open-source library named PORORO. [link]
- Webpage: <https://www.kakaobrain.com/>

Internships

Kakao Brain

INTERNSHIP

Pangyo, Gyunggi

Aug. 2020 - Oct. 2020

- Researched and developed English, Chinese, and Korean automatic speech recognition technogy. (Wav2vec 2.0) [link]
- Webpage: <https://www.kakaobrain.com/>

Spoken Language Lab

INTERNSHIP

Mapo, Seoul

Apr. 2020 - Aug. 2020

- Dept. of Computer Science & Engineering Sogang University
- Studied speech recognition technologies based on deep learning algorithm.
- Webpage: <https://speech.sogang.ac.kr/>

Samsung Multi-Campus

SHORT-TERM INTERNSHIP

Gangnam, Seoul

Jul. 2018 - Aug. 2018

- Taking software development training using Java and Database
- Won the Outstanding Award among the trainees.
- Webpage: <https://www.multicampus.com/>

Education

Kwangwoon University

BACHELOR OF ENGINEERING, MAJOR IN ELECTRONIC & COMMUNICATION, MINOR IN DATA SCIENCE

Seoul, South Korea

Mar. 2014 - Feb. 2021

- **Major GPA** : 3.90 / 4.5, **Total GPA** : 3.67 / 4.5
- **Scholarship** : Samsung Scholarship (2020, 2019), Bima Scholarship (2019-Spring, 2018-Fall, 2018-Spring)
- **Internship** : Kakao Brain (2020-Fall), Spoken Language Lab (2020-Spring), Multi-Campus (2018-Summer)
- **Honors** : President's Award, People's Choice Award (Kwangwoon Engineering Festival), Outstanding Award (Multi-Campus), People's Choice Award (Startup Idea Contest), School Representative (SKT 5G-based Convergence Idea Contest)

Competitions

- 2020 **3rd Ranked**, AI Grand Challenge - Speech Recognition Track (Advisor)
- 2019 **Finalist (12th Ranked)**, Naver AI Hackathon - Speech (Team Leader)

MSIT

Naver

Project Experience

Open-Domain Dialog System

TEAM MEMBER

TUNiB

Mar. 2021 - Present

- Research and development of artificial intelligence that enables human-like conversation
- A study on the conversation model that is tailored to the character's characteristics

PORORO: Platform Of neuRal mOdelS for natuRal language prOcessing

TEAM MEMBER

Kakao Brain

Sep. 2020 - Feb. 2021

- Easy to solve various subtasks in the NLP and speech processing field by simply passing the task name. [link]

KoSpeech: Open-Source Toolkit for End-to-End Korean Speech Recognition

TEAM LEADER

Kwangwoon Univ.

Jan. 2020 - Feb. 2021

- Modular and extensible end-to-end Korean automatic speech recognition toolkit [link]

Multilingual Text-To-Speech

THE PERSON IN CHARGE

Kakao Brain

Oct. 2020 - Feb. 2021

- Development of Kakao Brain's multilingual-TTS technology. [link]

Technical Skills

Language	Python, Java, C, Shell Script, SQL, Android, HTML
Deep Learning	PyTorch, PyTorch-Lightning, Fairseq, Transformers, ParlAI
Data	Numpy, Pandas, Matplotlib, TorchAudio, Librosa, Sentencepiece
Retrieval	Faiss
OS	OS X, Linux, Windows
Editor	Pycharm, Vim, Vscod, Visual Studio, Eclipse
Collaboration	Git, Slack
Configuration	Hydra, Omegaconf

Extracurricular Activity

Speech Paper Reading

GROUP MEMBER

Study

Dec. 2020 - Present

- Weekly speech processing paper reading study [link]

NLP Paper Reading

GROUP MEMBER

Study

Sep. 2020 - Feb. 2021

- Kakao Brain Natural Language Processing Team's weekly paper reading study [link]

Technical Blog

WRITER

Blog

Aug. 2018 - Present

- Technical posting of deep learning, programming, signal processing, paper review etc. [link] [link]

Teaching Experience

Samsung AI Expert Course - Speech Recognition

TEACHING ASSISTANT

Spoken Language Lab

Jul. 2020 - Aug. 2020

- Conducted Teaching Assistant role in the speech recognition session.

Object-Oriented Programming Practice

TEACHING ASSISTANT

Kwangwoon University

Mar. 2020 - Jun. 2020

- Covered basic JAVA programming, ran laboratories and had office hours every week.

Military Service

ROKMC Served and discharged from Republic of Korea Marine Corps as Signaller, Sergeant, 2015.09 - 2017.06

Publication

2021 Open-Source Toolkit for End-to-End Korean Speech Recognition, ELSEVIER, SIMPAC, Volume 7, 100054

2020 KoSpeech: Open-Source Toolkit for End-to-End Korean Speech Recognition, arXiv, 2009.03092