



# Soohwan Kim

AI RESEARCH ENGINEER

## Profile

Current Co-founder & AI Research Engineer of TUNiB. Kakao Brain. I have skills and experiences in speech and natural language processing fields.

## Employment History

### Co-founder, TUNiB

MARCH 2021 — PRESENT

- Research & development of AI that enables human-like conversation.
- Responsible for engineering in the team. (TPU, Big-model training etc.)
- Check more details about TUNiB at [link]

### AI Research Engineer, Kakao Brain

NOVEMBER 2020 — FEBRUARY 2021

- Speech and natural language processing team.
- Research & development the latest NLP & Speech technologies.
- Development of speech modules for NLP open source pororo.

## Internships

### Internship, Kakao Brain

AUGUST 2020 — OCTOBER 2020

- Speech and natural language processing team.
- Development of speech recognition model for English, Chinese, and Korean.

### Internship, Spoken Language Lab

APRIL 2020 — AUGUST 2020

- Dept. of Computer Science & Engineering Sogang University.
- Studied end-to-end speech recognition technologies.

## Education

### Bachelor of Engineering, Kwangwoon University

MARCH 2014 — FEBRUARY 2021

- **Major:** Electronic & Communication Engineering, **Minor:** Data Science
- **Major GPA:** 3.90/4.5, **Total GPA:** 3.67/4.5
- **Scholarship:**
  - Samsung Scholarship (2020)
  - Samsung Scholarship (2019)
  - Bima Scholarship - Competitive Scholarship (2019-1)
  - Bima Scholarship - Competitive Scholarship (2018-2)
  - Bima Scholarship - Competitive Scholarship (2018-1)
- **Honors:**
  - President's Award (Kwangwoon Engineering Festival)
  - People's Choice Award (Kwangwoon Engineering Festival),
  - Outstanding Award (Multi-Campus)
  - People's Choice Award (Startup Idea Contest)

## Details

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Seoul, 06232  
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[sh951011@gmail.com](mailto:sh951011@gmail.com)

NATIONALITY

South Korean

DRIVING LICENSE

Class 2

DATE / PLACE OF BIRTH

1995.10.11

Cheonan City

## Links

[GitHub](#)

[Facebook](#)

[Tech Blog](#)

## Skills

PyTorch

Fairseq

PyTorch-Lightning

Transformers

Lightning-Transformers

Accelerate

Parl-AI

Multi-Node Training

TPU Training

Git

Hydra

Python

Java

C

HTML

CSS

SQL

Shell Script

Numpy

Pandas

## Project Experience

### Open-domain Dialog System, TUNiB

MARCH 2021 — PRESENT

- Development conversational AI who people emotionally engage with.
- Developing and experimenting with multiple concepts of chatbots.

### Pororo, Kakao Brain

AUGUST 2020 — FEBRUARY 2021

- Platform Of neuRal mOdelS for natuRal language prOcessing
- Easy to solve various subtasks in the NLP and Speech processing field.
- GitHub: <https://github.com/kakaobrain/pororo>

### Multilingual Text-To-Speech, Kakao Brain

NOVEMBER 2020 — FEBRUARY 2021

- Development of Kakao Brain's TTS technology.
- Supports 11 languages, cross-lingual voice style transfer, code-switching.
- Demopage: <https://pororo-tts.github.io/>

### Speech Recognition using Wav2vec 2.0, Kakao Brain

AUGUST 2020 — OCTOBER 2020

- Development of Kakao Brain's ASR technology. (English, Korean, and Chinese)
- Mount to 'pororo' speech recognition task.

### KoSpeech, Kwangwoon Univ.

JANUARY 2020 — FEBRUARY 2021

- Modular & extensible end-to-end Korean ASR toolkit.
- Got hundreds of stars in GitHub.
- GitHub: <https://github.com/sooftware/KoSpeech>

### Naver AI Hackathon - Speech, Naver

SEPTEMBER 2019 — OCTOBER 2019

- Automatic speech recognition competition held by Naver.
- Hackathon page: [https://campaign.naver.com/aihackathon\\_speech/](https://campaign.naver.com/aihackathon_speech/)

## Others

### Military Service

SEPTEMBER 2015 — JUNE 2017

- Served and discharged from Republic of Korea Marine Corps.

### Study

- A.I. Speech Paper Reading [\[link\]](#)
- NLP Paper Reading [\[link\]](#)

### Teaching Assistant

- Samsung AI Expert Course - Speech Recognition, Spoken Language Lab
- Object-Oriented Programming Practice, Kwangwoon Univ.

### Competition

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

### Publication

- Open-Source Toolkit for E2E Korean Speech Recognition, SIMPAC, Volume 7
- KoSpeech [Technical Report], arXiv, 2009.03092

## Hobbies

Running, Watching Netflix,  
Watching YouTube, Read  
Webtoons, Listening to Music,  
Drinking Beer