# SANGCHUN HA

**Undergraduate Student**

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Date of birth ............................... *1997.11.07*   Place of birth ......................... *Gangdong-gu, Seoul*

## LINKS

*GitHub*, *Linked In*

## PROFILE

My name is Sangchun Ha, and I am currently working as an intern at TUNiB.

I think the world will come where everything is possible with a speech prompt. So, I am specially interested in both speech recognition and natural language processing. The issue of AI ethics is also important, so I'm always thinking about it. If you are interested in me, please don't hesitate to contact me.

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## EMPLOYMENT HISTORY

### ♣ TUNiB, Internship ...................................................... Aug 2021 — Present
Gangnam, Seoul

Development Korean-English Bilingual Electra Models. [link]

Experienced in data collection and data preprocessing.

Researched services that handle personal information and inappropriate text.

Check more details about TUNiB at [link].

### ♣ NeuroAI Lab, Internship ...................................................... Mar 2021 — Aug 2021
Kwangwoon Univ.

Dept. of Biomedical Signal Processing & Human-Machine Interaction.

Studied end-to-end speech recognition technologies.

Check more details about NeuroAI Lab at [link].

## EDUCATION

### ♣ Kwangwoon University ...................................................... Mar 2016 — Present
Seoul, South Korea

*Bachelor of Engineering*

Major in Electronic & Communication Engineering, Minor in Data Science.

**Major GPA** : 4.28 / 4.5,  **Total GPA** : 4.12 / 4.5

**Courses** : AI & Speech Signal Processing, Data Mining, Text & Opinion Mining, Database, Capstone Design l-ll, Operating systems, Software Design, Computer Architecture, Data Structure & Algorithm, Object-Oriented Programming, Computer Network, Data Science, Big Data Planning and Analytics, C Programming, Data Communication, Digital Signal Processing, Signal and System, Digital Engineering, Digital Communication, Communication Theory, Network Analysis, Linear Algebra, Discrete Math, Engineering Mathematics l-ll, Physical Electronics, Circuit Theory, Semiconductor Devices, Electronic Circuit 1, Basic Electronic circuit Lab l-ll, Electronic Circuit LAB l-ll

# PROJECT EXPERIENCE

### ❖ TUNiB Electra ............................................................... Aug 2021 — Sep 2021

Released the pre-trained language model, TUNiB Electra. [link]

Experienced Electra model pre-training using TPU and fine tuning.

Experienced in data collection and data preprocessing.

### ❖ OpenSpeech ................................................................. May 2021 — Jul 2021

Implemented a framework to easily make a speech recognizer in various languages. [link]

Supports more than 20 speech recognition models including Transformer, Conformer, ContextNet, and Listen Attend Spell.

### ❖ Automatic Speech Recognition Models ............................... Dec 2020 — Feb 2021

Implemented End-to-End Speech Recognition models with PyTorch. [link]

Several speech recognition models: Listen-Attend-Spell, Deepspeech2, Speech-Transformer, RNN-Transducer, Transformer-Transducer, ContextNet

Developed three different attention mechanisms: Scaled dot-product attention, Location aware attention, Multi-head attention

# EXTRA-CURRICULAR ACTIVITIES

### ❖ AI Grand Challenge ........................................................ Oct 2021 — Nov 2021

3rd ranked, 2021 AI Grand Challenge - Speech Recognition Track

### ❖ CLOVA AI RUSH ........................................................... Apr 2021 — Jul 2021
*Naver*

4th ranked, Named Entity Recognition in Japanese order history. [link]
4th ranked, Extracting user embedding using large-scale shopping data.

### ❖ Google Machine Learning Bootcamp ................................... Oct 2020 — Feb 2021
*Google Korea*

Completed Deep Learning Specialization lecture which is taught by Prof. Andrew Ng.

Studying various deep learning models and techniques.

Obtaining the TensorFlow Developer Certificate. [link]

# SKILLS

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|---|---|---|---|
| Python | *Expert* | Git | *Skillful* |
| PyTorch | *Expert* | Matlab | *Skillful* |
| Java | *Experienced* | SQL | *Skillful* |
| C | *Experienced* | R | *Skillful* |

# LANGUAGE PROFICIENCY

### ❖ OPIC IM ...................................................................................... Aug 2020