

# Sangchun Ha

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Date of birth	1997.11.07	Place of birth	Gangdong, Seoul
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LINKS	<a href="#">GitHub</a> , <a href="#">Linked In</a> , <a href="#">Tech blog</a>
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## EMPLOYMENT HISTORY

Jan 2022 — Present	<b>ReturnZero</b>	Gangnam, Seoul
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Developing end-to-end speech recognition models.

Check more details about ReturnZero at [\[link\]](#).

Aug 2021 — Jan 2022	<b>TUNiB, Internship</b>	Gangnam, Seoul
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Developed Korean-English bilingual language models.

Experienced in NLP engineering.

Check more details about TUNiB at [\[link\]](#).

Mar 2021 — Aug 2021	<b>NeuroAI Lab, Internship</b>	Nowon, Seoul
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Dept. of Electronic and Communication Engineering, Kwangwoon University

Studied end-to-end speech recognition technologies.

Advisor: Prof. [Young-Seok Choi](#)

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## EDUCATION

Mar 2016 — Feb 2022	<b>Bachelor of Engineering, Kwangwoon University</b>	Nowon, Seoul
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Major in Electronic and Communication Engineering, Minor in Data Science.

**Major GPA** : 4.28 / 4.5, **Total GPA** : 4.07 / 4.5

### Relevant Coursework :

- AI & Speech Signal Processing, Digital Signal Processing, Algorithm
- Data Mining, Data Science, Database, Data Structure, Data Communication
- Operating System, Computer Architecture, Computer Network, Object-Oriented Programming

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## PROJECT EXPERIENCE

Nov 2021 — Dec 2021	<b>Dialog Safety</b>
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Developed services to identify and detect personal information, hate speech, and sensitive topics in chatbot conversations.

Experienced in data preprocessing with hate speech and personal information.

Python, PyTorch, Huggingface

Aug 2021 — Sep 2021	<b>TUNiB Electra</b>
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Released the pre-trained language model, TUNiB Electra. [\[link\]](#)

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

Modified the tensorflow code and conducted various experiments.

Python, TensorFlow, Weights & Biases, Huggingface

May 2021 — Jul 2021	<b>OpenSpeech</b>
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Implemented a framework to easily make a speech recognizer in various languages. [\[link\]](#)

Responsible for project maintenance.

Developed speech recognition models including Transformer-Transducer, ContextNet.

Python, PyTorch, PyTorch Lightning, Fairseq, Hydra, Weights & Biases

Dec 2020 — Feb 2021

## Automatic Speech Recognition Models

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

Experienced modeling with three different attention mechanisms: Scaled dot-product attention, Location aware attention, Multi-head attention

Python, PyTorch, Hydra

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## COMPETITION

Oct 2021 — Nov 2021

### AI Grand Challenge

IITP

3rd ranked, 2021 AI Grand Challenge

Task to classify violent situations using acoustic and language models.

Apr 2021 — Jul 2021

### CLOVA AI RUSH

Naver

4th ranked, Named Entity Recognition in japanese order history. [\[link\]](#)

4th ranked, Extracting user embedding using large-scale shopping data.

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## EXTRA-CURRICULAR ACTIVITIES

Sep 2021 — Present

### Engineering Study

TUNiB

Studied the necessary knowledge as an NLP engineer such as Hydra, Docker, and Regex.

Recorded how to use and reviewed various open sources.

Oct 2020 — Feb 2021

### Google Machine Learning Bootcamp

Google Korea

Completed deep learning specialization lecture which is taught by Prof. Andrew Ng.

Studied various deep learning models and techniques.

Acquired the TensorFlow Developer Certificate. [\[link\]](#)

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## AWARDS & HONORS

2021

President Award, AI Grand Challenge, IITP

Future Creation Talent Scholarship, KT

Academic Excellent Scholarship, Kwangwoon Univ.

2020

Encouragement Award, 5G-based ICT Convergence Idea Contest, KICS

Academic Excellent Scholarship, Kwangwoon Univ.

2019

Finalist, Software Start-Up Idea Contest, Kwangwoon Univ.

Academic Excellent Scholarship, Seoul Scholarship Foundation

Academic Excellent Scholarship, Kwangwoon Univ.

2016

Academic Excellent Scholarship, Kwangwoon Univ.

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## CERTIFICATE

Dec 2020 — Dec 2023

TensorFlow Developer Certificate, TensorFlow