

Bitna Keum

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INTRODUCTION

I am currently senior in Computer and Information Engineering at Kwangwoon University. I'm really interested in NLP, especially Chatbot. My long-term goal is making human-like, friendly conversational chatbot which can even replace a 'real' friend. To reach my goal, I'm continuously studying concepts of NLP and have ever made basic task-oriented chatbot. To grow myself, I want to learn more about the field of NLP and to communicate with people who have same interests as me.

EDUCATION

Kwangwoon University

Bachelor of Engineering, Department of Computer & Information Engineering
GPA 4.16 / 4.5

Mar. 2017 - Feb. 2022 (Expected)

Seoul, South Korea

WORK EXPERIENCES

• Internship at GNC Solution Co., Ltd.

Sep. 2019 - Feb. 2020

- Studying Deep Learning and Natural Language Processing
- Developing Q&A Program based BERT
- Stock Analysis

Songpa-gu, Seoul

• Development Part-time Job at Esoftware Co., Ltd.

Oct. 2019 - Dec. 2019

- Developing .NET framework Application Software
- Software UI/UX Design
- Management of Database by SQL Query

Songpa-gu, Seoul

PROJECT EXPERIENCES

• Coin Price Prediction Project

May. 2021 - Jun. 2021

- Term Project in Data Mining Course
- Used time-series models (CNN, LSTM, Prophet, ARIMA, N-Beats)
- Got the best result using N-Beats with the profit of 2.23 times

- **Thanks For Today: smart diary analyzing myself** *Feb. 2021 - Feb. 2021*
 - Participated in SW-central-university Joint Hackathon as a school representative
 - Analyzing texts of diary by NLP
 - Providing information such as key word, key sentence, frequent words, Wordcloud and user's liking
- **GAN-based Clothing Design Application Program** *Jul. 2020 - May. 2021*
 - Applying StarGAN and Mask R-CNN and Providing service as Web application
 - Improved the model architecture of StarGAN, resulted in better performance
 - Made the model 35% lighter
- **Store: Consumer-Entrepreneur Connection System** *Jan. 2020 - Mar. 2020*
 - Developing Web for communication between (prospective) entrepreneur and customer
 - Won an Excellence Award in Autonomous Semester Design & Development Project
- **Developing BERT-based Q&A Program** *Sep. 2019 - Feb. 2020*
 - Developing Q&A Program based BERT
 - Training model on KorQuAD v1.0 dataset

EXTRACURRICULAR ACTIVITY

- **NLP Paper Reading Group 'Jibhyeonjeon'** *Jun. 2021 - Present*
 - Intermediate class member
 - Our team presented on the topic 'Task-Oriented Dialogue System'
- **Idea Contest for Utilizing AI** *Nov. 2020 - Nov. 2020*
 - Won the 1st prize with the idea of 'Clothing pattern synthesis program using GAN'
- **Coding School Tutor** *Jan. 2019, Jan. 2021, Feb. 2021, Jul. 2021*
 - Working as a tutor of C and Python Coding School in Kwangwoon University
 - Assisted and coached my students in programming practice
- **C-language Study** *Mar. 2017 - Jun. 2017*
 - Studied C-language and algorithm every weeks
 - Attended to several seminars conducted by seniors
- **Information Security Study** *Mar. 2017 - Jun. 2017*
 - Studied overall Information Security, especially Reverse Engineering every weeks
 - Founding member of Information Security Club

AWARDS AND HONORS

2020	President's Award (1st place) , Idea Contest for Utilizing AI, <i>Kwangwoon University</i>
2020	Excellence Award , Autonomous Semester Design & Development Project, <i>Kwangwoon University</i>
2020, 2018	Academic Excellence Scholarship , <i>Kwangwoon University</i>

SKILLS

- **Programming Skills**
 - Python, C/C++, Java, JavaScript, HTML, R, SQL
 - PyTorch, Tensorflow (+Keras)
- **Language Skills**
 - Korean (Native), English (TOEIC 855), Chinese (Beginner)