

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 TUNiB Inc.

- Working as a data engineer
- Web scraping, data preprocessing, and data management

Jul. 2021 - Present

Gangnam-gu, Seoul

- **Internship** at GNC Solution Co., Ltd.

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

Sep. 2019 - Feb. 2020

Songpa-gu, Seoul

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

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

Oct. 2019 - Dec. 2019

Songpa-gu, Seoul

PROJECT EXPERIENCES

- **Web crawling(scraping) Project** *Jul. 2021 – Jul. 2021*
 - Scraping data from Namuwiki, Wikipedia, naver blog, daum blog, tistory, nate pann, youtube
 - Personal project
- **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/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, *Kwangwoon University*

2020 **Excellence Award**, Autonomous Semester Design & Development Project, *Kwangwoon University*

2021, 2020, 2018 **Academic Excellence Scholarship**, *Kwangwoon University*

SKILLS

- **Programming Skills**

- Python, C/C++, Java, JavaScript, HTML, R, SQL
- PyTorch, Tensorflow (+Keras)

- **Language Skills**

- Korean (Native), English (TOEIC 855), Chinese (Beginner)