

Bitna Keum

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INTRODUCTION

I am currently senior in Computer and Information Engineering at Kwangwoon University. I'm passionate about Natural Language Processing. My long-term goal is making human-like conversational chatbot which can even replace a 'real' friend. To realize my goal, I'm continuously studying various techniques of NLP and practicing modeling by myself. I want to deepen my understanding of the field of NLP, so I decide to go to graduate school. I'm looking forward to interacting with experienced professor and lab people to grow up.

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.

Jul. 2021 - Present

- Working as a data engineer at NLP company
- Contributing to building a hyperscale Korean language model
- Weekly NLP paper review
- Preparing to participate in NLP task competition (scheduled for Oct.)

Gangnam-gu, Seoul

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

Sep. 2019 - Feb. 2020

- Studying Deep Learning and NLP
- Developing Q&A Program based BERT
- Stock Analysis using LSTM and magic formula

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

- **Hyperscale Korean-LM** *Jul. 2021 – Present*
 - Progressing in internship
 - Web scraping, data preprocessing, and data management
- **Web Scraping Project** *Jul. 2021 – Jul. 2021*
 - Personal project
 - Scraping data from Namuwiki, Wikipedia, naver blog, daum blog, tistory, nate pann, youtube
- **Coin Price Prediction Project** *May. 2021 – Jun. 2021*
 - Term project in Data Mining class
 - To predict time-series data, tried various 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 the text data of diary by NLP
 - Extracting the key word/sentence and frequent words, and Visualizing with Wordcloud
- **GAN-based Clothing Design Application Program** *Jul. 2020 – May. 2021*
 - Industry-Academic collaboration project with LG
 - 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
- **Consumer-Entrepreneur Connection Web Community** *Jan. 2020 – Mar. 2020*
 - Developing Web for communication between consumer and (prospective) entrepreneur
 - Back-end development with Javascript using Node.js
 - NoSQL Database management
 - 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
 - Trained the 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'

- **Dacon AI Bit Trader Contest Season 2** *May. 2021 – Jun. 2021*
 - Participated in the competition following the term project in Data Mining class
 - Ranked 17th using N-Beats model with the profit of 2.23 times
- **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 students in programming practice
- **Tech Blog** *Mar. 2019 – Present*
 - Recording anything I learn while studying
 - [\[Link\]](#)
- **C-language Study** *Mar. 2017 – Jun. 2017*
 - Studied C-language and algorithm every week
 - Attended to several seminars
- **Information Security Study** *Mar. 2017 – Jun. 2017*
 - Studied overall Information Security, especially Reverse Engineering every week
 - 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>
2021, 2020, 2018	Academic Excellence Scholarship , <i>Kwangwoon University</i>

SKILLS

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