

Bitna Keum

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EDUCATION

Konkuk University

The master's degree, Department of Computer Engineering, NLP Lab.
GPA 4.5 / 4.5

Mar. 2022 – Present
Seoul, South Korea

Kwangwoon University

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

Mar. 2017 – Feb. 2022
Seoul, South Korea

WORK EXPERIENCES

- **Internship** at TUNiB Inc.
 - Building datasets for Korean language models
 - Participation in NLP task competitions
 - Servicing chatbots
- **Internship** at GNC Solution Co., Ltd.
 - Studying Deep Learning and NLP
 - Developing Q&A Program based BERT
 - Stock Analysis using LSTM and magic formula
- **Development Part-time Job** at Esoftware Co., Ltd.
 - Developing .NET framework Application Software
 - Software UI/UX Design
 - Management of Database by SQL Query

Jul. 2021 – Jan. 2022
Gangnam-gu, Seoul

Sep. 2019 – Feb. 2020
Songpa-gu, Seoul

Oct. 2019 – Dec. 2019
Songpa-gu, Seoul

PROJECT EXPERIENCES

- **Chatbot Service**
 - Implementing functions of chatbot and deploying models
 - Servicing on Kakaotalk using kakao i open builder

Nov. 2021 – Jan. 2022

- **TUNiB-electra** *Jul. 2021 – Sep. 2021*
 - Web scraping, data preprocessing, and data management
 - Collected 1.2TB Korean text data
 - now we are making TUNiB-GPT
- **Web Scraping Project** *Jul. 2021 – Jul. 2021*
 - Building Web Scrawler for many different web site
- **Coin Price Prediction Project** *May. 2021 – Jun. 2021*
 - 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 and showing it to user
 - Extracting the key word/sentence and frequent words from diary, 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

EXTRACURRICULAR ACTIVITY

- **AI Grand Challenge competition** *Oct. 2021 – Nov. 2021*
 - Participated in math word problem solving and threatening conversation detecting task
 - Won the President's Award
- **NLP Paper Reading Group 'Jibhyeonjeon'** *Jun. 2021 – Nov. 2021*
 - Intermediate class member
 - Our team presented on the topic 'Task-Oriented Dialogue System'
- **Dacon AI Bit Trader Contest** *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

AWARDS AND HONORS

2021	President’s Award , AI Grand Challenge, <i>ITTP</i>
2021	Encouragement Award , SW portfolio contest, <i>Kwangwoon Univ.</i>
2020	President’s Award , Idea Contest for Utilizing AI, <i>Kwangwoon Univ.</i>
2020	Excellence Award , Autonomous Semester Design & Development Project, <i>Kwangwoon Univ.</i>
2021, 2020, 2018	Academic Excellence Scholarship , <i>Kwangwoon Univ.</i>

SKILLS

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