

# Bitna Keum

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## EDUCATION

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### Konkuk University

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

*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

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- **Internship** at TUNiB Inc.

- Building datasets for Korean language models
- Participation in NLP task competitions
- Servicing chatbots

*Jul. 2021 – Jan. 2022*

*Gangnam-gu, Seoul*

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

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

*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

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- **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

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- **AI Grand Challenge competition** *Oct. 2021 – Nov. 2021*
  - Math word problem solving task
  - Threatening conversation detecting task
- **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

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

## SKILLS

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