

# Bitna Keum

☎ +82-10-3446-3606  
✉ [beausty23@naver.com](mailto:beausty23@naver.com)  
📖 [beausty23.tistory.com](https://beausty23.tistory.com)  
🐙 [github.com/BitnaKeum](https://github.com/BitnaKeum)



## INTRODUCTION

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I am currently senior in Computer and Information Engineering at Kwangwoon University. I'm passionate about Natural Language Processing. My long-term goal is to make human-like conversational chatbot, which can even replace a real friend and has various persona. To be one step closer to my goal, I'm currently taking an internship at NLP startup. In addition to, I'm continuously studying various techniques of NLP and practicing modeling by myself. I'd like to deepen my understanding of the field of NLP and do in-depth research, so I decide to go to graduate school. I'm looking forward to interacting with experienced professor and lab people to grow up.

## EDUCATION

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### 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

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- **Internship** at TUNiB Inc. *Jul. 2021 - Present*  
*Gangnam-gu, Seoul*
  - Working as a data engineer at NLP startup
  - Building hyperscale Korean language models
  - Weekly NLP paper reading
  - Scheduled for participating in NLP task competition
- **Internship** at GNC Solution Co., Ltd. *Sep. 2019 - Feb. 2020*  
*Songpa-gu, Seoul*
  - 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. *Oct. 2019 - Dec. 2019*  
*Songpa-gu, Seoul*
  - Developing .NET framework Application Software
  - Software UI/UX Design
  - Management of Database by SQL Query

## PROJECT EXPERIENCES

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- **Solving Math Word Problem in Korean** *Sep. 2021 – Present*
  - Progressing in internship, and for 'AI GRAND CHALLENGE' competition
  - Collecting math word problem dataset and mapping to python code
  - Scraping python codes from GitHub and mapping to its docstring (like CodeX)
  - Fine-tuning to GPT-3
- **TUNiB-electra** *Jul. 2021 – Sep. 2021*
  - Progressing in internship
  - 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*
  - 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 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
- **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

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- **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
- **Deep Learning Study** *Jul. 2020 - Aug. 2020*
  - Weekly study on CS231n of Stanford University
  - With Industry-Academic collaboration project members and lab people
- **Computer Vision Study** *Jul. 2020 - Aug. 2020*
  - Weekly study on the Computer Vision
  - With Industry-Academic collaboration project members and lab people
- **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

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2020	<b>President's Award (1st place)</b> , Idea Contest for Utilizing AI, <i>Kwangwoon University</i>
2020	<b>Excellence Award</b> , Autonomous Semester Design & Development Project, <i>Kwangwoon University</i>
2021, 2020, 2018	<b>Academic Excellence Scholarship</b> , <i>Kwangwoon University</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)