

# JIWON PYO

Distributed Computing Systems Lab  
Department of Computer Science and Engineering  
Seoul National University  
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## EDUCATION

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### Master's Degree:

**Seoul National University** (2022/03~2024/2 candidate)  
Major in Computer Science Engineering

### Bachelor's Degree:

**Pusan National University** (2017/03- 2022/02)  
Major in Industrial Engineering

## WORK EXPERIENCE

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### Intelligent Data System Laboratory Internship (2021.09.01~)

- Department of Computer Science & Engineering, Seoul National University
- Participated in a previous research project on fashion image processing technology for intelligent fashion search engine

### 번개장터 Data team Internship (2020/09/21-2021/01/20)

#### Data Analysis

- Analyzing impression, click, transaction log data and extracting insights using SQL and Python
- Analyzing Fraud detection data in transaction

#### Recommender Systems

- Participated in a meeting of the latest recommender systems algorithm trends research review
- A/B testing of recommender systems algorithm using CTR and various indicators

#### Distributed systems

- Studied the concept of MapReduce, Spark

### Thebeesoft (LG CNS partner) TA, DBA Internship (2020/05-2020/08)

#### LG U+ ERP System Project

- Transferring big data, changing table and processing requests using Linux, oracle
- Experience in building and managing DB and development servers using AWS
- Development, Secure VM
- Cloud computing, AWS

### Business Service Computing Laboratory (Undergraduate researcher) (2019/09-2019/12)

- Department of Industrial Engineering, Pusan National University
- Learning Python and CNN Concepts

## PROJECT EXPERIENCE

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### • Fashion image processing technology for intelligent fashion search engine research project (IDS Laboratory, 2021~)

- Roles: Implementing baseline recommender systems and finding a dataset for comparison with the latest Deep Learning-Based recommender systems.

(Top popular, Item/user KNN CBF, Item/user KNN CF, Hybrid,  $P3\alpha$ ,  $RP3\beta$ )

- Skills: Traditional Recommender systems, Python

- **Emotional keyword-based restaurant recommendation service using content-based filtering and word2vec** (Capstone Design Project, 2021, 4 months)

- Summary: A restaurant recommendation service based on the atmosphere of the restaurant you want or your mood on the day
- Roles: Collecting data, creating two recommender systems algorithms, Proposing Weighted-Item2Vec, a new form of Prod2Vec
- Skills: Content Based Filtering, Web Crawling, NLP, Weighted-Item2Vec, Word2Vec, K-means Clustering
- Achievement: Got 535 users in 2 weeks after the distribution of the webapp page, and 93% of the users were satisfied with 4 or more points by the recommended results.

- **Participated in AI Competition for Natural Language-Based Climate Technology Classification**

(NLP Study group, 2021, 3 months)

- Summary: A competition to label natural language-based national tasks with accurate climate technology.
- Roles: Data analysis and Developing LSTM models, using SQL and Python
- Skills: Python, Pytorch, SQL / LSTM, BERT

- **Development of purchase conversion rate prediction algorithm using user's wish log**

(personal project in 번개장터, 2020, 2 months)

- Summary: An algorithm that predicts the probability of purchase for a particular product based on demographic information such as user's previous steamed record and age/gender, and previous transaction data.
- Roles: Collecting log data using SQL, developing a high-precision purchase conversion rate prediction algorithm
- Skills: Python, SQL / Random Forest, XGBoost, smote

- **Creating contest information searching / Team Matching Webpage** (Database Term Project, 2019, 3 months)

- Summary: Creating contest information searching / Team Matching Webpage with database
- Roles: Database Management
- Skills: html, SQL, PHP

- **Analysis of factors affecting the crime rate through analysis of crime data by district in Busan**

(Data Mining Term Project, 2019, 3 months)

- Summary: Using public data of Busan such as the number of CCTVs, population density, etc.
- Roles: Research, PCA using R, Visualization
- Skills: R, tableau / negative binomial regression

## SKILLS & ABILITIES

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- Programming Language: SQL(advanced), Python(intermediate), R, Java, Html, PHP
- TOEIC 890, New TEPS 356
- ADsP (Advanced Data Analytics Semi-Professional) (2021.08.29)
- Mostly work as a leader of the team work.

## HONORS AND AWARDS

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- **CK Academic Excellence Scholarship** (2017-2018)
- **National Science & Technology Scholarship** (2019-2021)