

# SEUNGEUN KANG

Undergraduate Student @ Kyonggi University

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## EDUCATION

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**B.S in Kyonggi Univeristy**

*Feb 2020 - Mar 2026*

Division of AI Computer Science and Engineering

**GPA: 4.38 / 4.5**

Thesis :

**(in major : 4.40 / 4.5)**

## RESEARCH INTERESTS

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My dream is to be an **“engineer who creates useful things for everyday life”**.

I believe that **“Human Computer Interaction with LLMs & Mobile Computing”** is the closest thing to this dream.

In detail, I really enjoy the process of 1) *propose novel solutions*, 2) *implementing services*, and 3) *organize and write paper about them* to solve real-world problems.

## RESEARCH EXPERIENCES

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**SNU Cognitive Computing Lab**

*Mar 2025 - Jun 2025*

*Undergraduate Researcher at Seoul National University*

Seoul, Republic of Korea

- Research topic : Human-Computer-Interaction, Large Language Models, QA models

**ETRI Social Robotics Lab**

*Jan 2025 - Feb 2025*

*Internship at Electronics and Telecommunications Research Institute*

Daejeon, Republic of Korea

- Research topic : Human-Computer-Interaction, Image De-Identification, Vision Language Models

**LOTTE INNOVATE Tech AI. Team**

*Jul 2024 - Aug 2024*

*Internship at LOTTE INNOVATE*

Seoul, Republic of Korea

- Research topic : Text to Image Generation Pipeline, CLIP Text Encoder

**KGU Smart IoT Lab**

*Jul 2023 - Dec 2024*

*Undergraduate Researcher at Kyonggi University*

Suwon, Republic of Korea

- Research topic : Sensor Data Based Deep Learning, Language Models

## PUBLICATIONS

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### International Conferences

1. **S Kang**, D Lee, S Han, S Lim, N kim\*, **“Research on Building K-Contents Specialized Text2Image Pipeline”**, *The 27th International Conference on Advanced Communication Technology*, Feb. 2025, Oral
2. **S Kang**, K Jin, N kim\*, **“Research on Memory-efficient Approach to Sleep Quality Estimation for Edge Devices”**, *The 15th International Conference on ICT Convergence*, Oct. 2024, Poster
3. **S Kang**, N Kim\*, **“A Study on User Review text-Based Rating prediction system Using Large Language Model Finetuning”**, *19th Asia Pacific International Conference on Information Science and Technology*, Jun. 2024, Poster

## Domestic Conferences

1. S Kang, E Park, G Park, J Park, K Park, Y Moon, N Kim\* , “**BELIEVE : Vision-Based Edge Intelligence System for Safety Management on Industrial Environment**”, *Korean Institute of Information Technology Summer Conference*, May. 2024, Poster
2. S Kang , N Kim\* , “**Using activation function and ko-BERT Research of Click-bait Detection**” , *Korean Society For Internet Information Spring Conference*, Apr. 2024, Poster
3. S Kang , N Kim\* , “**Using Raspberry Pi and MNIST Dataset A study on handwriting images classification in an on-device environment**” , *Korean Society For Internet Information Spring Conference*, Apr. 2024, Poster

\* Corresponding Author

## PROJECTS & COMPETITIONS

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### SW Univ. 2024 Capstone Design and AI Hackerton

*Competition*

*Oct 2024 , Team Leader*

- Project in the SW Univ 2024 Hackerton(overnight on October 25th and 27th) , with 5 universities
- We purposed "DEEPTECTOR", AI-based Automatic Deepfake Image Detection System.
- Results 2nd Prize in 20 teams

### K-Contents Specialized Text2Img Pipeline

*Team Project*

*Jul 2024 - Aug 2024 , AI Development Leader*

- Project in the LOTTE INNOVATE internship
- Building a pipeline to understand Korean, generate K-Contents Images well.
- Publication in ICACT 2025

### Human Understanding AI Paper Challenge 2024

*Competition*

*May 2024 - Jul 2024 , Team Leader*

- Competition at ETRI, Human Understanding AI Paper Challenge
- Building models to predict sleep quality with minimal data for IoT devices
- Publication in ICTC 2024, Results 15th of 40 teams

### BELIEVE : Vision Based Edge Intelligence System for Safety Management

*Team Project*

*Mar 2024 - Jun 2024 , Team Leader*

- Capston Design project for junior
- Building Vison-based safety management system using OD model and edge intelligence technology
- Won the Capstone Design Award and Best Paper Award in KIIT

### DACON Seoul Average Temperature Forecasting Competition

*Competition*

*Dec 2023 - Jan 2024 , Personal*

- Competition for temperature prediction using time series prediction models
- Results top 3%(19th of 624)

## TEACHING EXPERIENCES

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### TA. National center of excellience in software, Kyonggi University

*Sep 2024 - Dec 2024*

- Teaching Assistant experience at KGU, National center of excellience in software

### Basic Tutoring : Stepping Stone Tutoring, Kyonggi University

*Mar 2024 - Jun 2024*

- Student-to-student tutoring experience as tutor
- *Mentored Area : Java Programming, Data Structure*

**SAP- Solve it together Mentoring**, JAKorea & SAP  
- Mentoring experience for middle & high school students  
- *Mentored Area : Micro:bit, Arduino*

*Aug 2023 - Sep 2023*

**2023 Gyonggichango Mentoring**, JAKorea  
- Mentoring experience for middle & high school students  
- *Mentored Area : Mobile Application Programming*

*Jul 2023 - Aug 2023*

## SKILLS

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### **Programming Languages and Frameworks**

- Python, Java, C, C++, C#, L<sup>A</sup>T<sub>E</sub>X
- Pytorch, Tensorflow, Scikit-learn, Unity, Flutter, FastAPI
- Linux, Docker

## AWARDS & CERTIFICATIONS

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### **Scholarships**

- **Scholarship for Academic Excelience** *Kyonggi University, Mar 2025*
- **Scholarship for Academic Excelience** *Kyonggi University, Sep 2024*
- **Scholarship for Academic Excelience** *Kyonggi University, Mar 2024*
- **Scholarship for Academic Excelience** *Kyonggi University, Sep 2023*
- **Scholarship for Academic Excelience** *Kyonggi University, Sep 2020*

### **Awards**

- **2nd Prize** in *SW univ, 2024 Capstone Design and AI Hackerton* , Korean Association of Computer Education, Oct 2024
- **Excellence Award** in *Basic Capstone Design Competition*, Kyonggi University, Jun 2024
- **Best Paper Award** in *Korean Institute of Information Technology Summer Conference*, May 2024

### **Certifications**

- **Test Of Practical Competency in IT level 3 : 536** (*certified from IITP, May. 2024*)
- **Certified Software Test Specialist Foundation Level** (*certified from TTA, Mar 2023*)