

# Bu-seung So

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## Experience

**NAVER CLOUD** [\[Link\]](#) | Seongnam, South Korea | Product Manager Intern (CLOVA Studio) | July 2025 - current

- Enhanced model safety and reliability by systematically designing and testing multiple system prompt instructions against a 202-case dataset, resulting in the selection of an optimal 'direct instruction' prompt that effectively prevents sensitive token information leakage without degrading performance
- Led the service planning for a Multi-LLM Platform by conducting in-depth research on open-source solutions like vLLM and analyzing competitor UI/UX, informing the roadmap for new model integration and playground functionality
- Developed a series of technical 'Cookbooks' and troubleshooting guides(e.g., GraphRAG, Function Calling) by translating complex model capabilities into practical, actionable guidance, thereby improving the developer experience and promoting advanced feature adoption
- Diagnosed and resolved critical model behavior issues, focusing on Identity Confusion and Prompt Leakage, by building a structured testing framework that provided key insights for product-level improvements

**GABIA** [\[Link\]](#) | Gwacheon, South Korea | Product Manager Intern(GABIA Cloud Services) | Mar 2025 - May 2025

- Contributed to the service planning of Gabia Cloud Gen2(based on OpenStack) by conducting technical research on competing CSPs and identifying key areas for improvement
- Performed comprehensive QA testing and analysis, deriving actionable UI/UX enhancement proposals to improve user satisfaction and service usability

**VCLab@JBNU (Prof. Hyung-ki Kim)** [\[Link\]](#) | Jeon-ju, South Korea | Undergraduate Research Assistant | Oct 2022 - Sep 2023

- Conducted individual research in Deep Learning and Computer Vision, focusing on object detection and data augmentation techniques
- Participated in two industry-academia collaboration projects, including a project with Hyundai Engineering to improve digital P&ID symbol recognition, where I contributed to improving the model's F1-Score by over 6x

## Projects

**LITMUS : Open-Source Online Judge and Contest Platform System (Jeonbuk National Univ.)** [\[Link\]](#)

| Project Manager, Backend Developer | | Apr 2024 - Aug 2024

- Successfully achieved a digital transformation (DX)** by architecting and leading the migration of a legacy on-premise system to a scalable, **OpenStack-based public cloud** SaaS platform, resulting in stable service for over 600 users and the publication of a research paper(KCC2025) [\[Link\]](#)
- Developed core backend features for SW education, including assignment management and contest result visualization, using Django and Python

**AI-Powered Illegal Occupation Detection for Geospatial Intelligence (LX(Korea Land&Geospatial Informatix Corp.))** [\[Link\]](#)

| AI Developer, Data Scientist | | Sep 2023 - Dec 2023

- Delivered the first-ever automated solution for detecting illegal riverbank occupation** with a high-performance AI model (F1-Score > 0.8), leading to a technology transfer to the Korea Land & Geospatial Informatix Corp. (LX) and laying the groundwork for a new public service
- Designed and optimized a custom 1-Stage Detector and built an efficient data preprocessing pipeline using PyTorch, OpenCV, and Pandas

**Improving digital P&ID recognition performance (Hyundai Engineering, Korea University, etc.)** [\[Link\]](#)

| Researcher(Deep Learning, Computer Vision), Data Scientist | | Apr 2023 - Sep 2023

- Participated in an industry-academia collaboration project with Hyundai Engineering to enhance digital P&ID recognition performance
- Improved the F1-Score of a symbol image recognition model by over 6x (from <0.1 to >0.6)** by researching and implementing domain adaptation and randomization techniques to resolve critical class imbalance and data scarcity issues

## Education

**Jeonbuk National University**

| B.S. in Div. Computer Science and Engineering | Jeon-ju, South Korea | Mar 2019 - Feb 2025 | GPA: 3.79 / 4.5 (8 semesters)

- Submission of Academic Papers:** Design and Operation of Automated Assignment Grading System for Software Education: Introduction and Considerations (KCC2025, 2025.07)

## Achievements

**Grand Prize** - 2023 SW Capstone Design Contest [\[News\]](#) [\[Link\]](#) JBNU National Center of Excellence in Software, 2023.12

- Awarded for the "AI-Powered Illegal Occupation Detection for Geospatial Intelligence (LX Corp.)" project

**Grand Prize** - 2023 CSAI SW Contest [\[Link\]](#)

JBNU Department of Computer Science and Artificial Intelligence, 2023.12

- Awarded for the "Take-A-Seat" project, an automatic attendance checking service where I served as Project Manager and Backend Developer

**2nd Prize** - 2024 JBNU AI Online Contest [\[Link\]](#)

JBNU College of Engineering, 2024.06

- Developed a high-accuracy fake voice detection model (2nd place, 99.99% accuracy) using an ensemble of CNN(VGG19) and biLSTM Models
- Achieved top-tier performance primarily through data augmentation and model fine-tuning

**2nd Prize** - 1st Open-Source Hackathon Camp [\[Link\]](#)

JBNU National Center of Excellence in Software, 2023.12

- Developed "K-Detect," an AI solution to detect illegal electric scooter usage (e.g. no helmet, dual riders) in using campus CCTV footage
- Led the project as a Project Manager and developed the core AI model using PyTorch

**3rd Place** - 2024 JBNU ICPC Contest [\[Link\]](#)

JBNU National Center of Excellence in Software, 2024.11

- Secured 3rd place in the university-level preliminary contest for the 2024 ICPC(International Collegiate Programming Contest)

**3rd Place** - 2023 JBNU ICPC Contest [\[Link\]](#)

JBNU Department of Computer Science and Artificial Intelligence, 2023.12

- Secured 3rd place in the university-level preliminary contest for the 2023 ICPC(International Collegiate Programming Contest)

## Skills

**(AI/ML & Data)** Python, PyTorch, LLM Evaluation, Prompt Engineering, RAG, Scikit-learn, Pandas, OpenCV, etc.

**(Cloud & Infra)** AWS (EC2, ELB, S3, RDS, VPC, DynamoDB, etc.), Docker, Linux, vLLM, OpenStack, MongoDB

**(Backend & Programming)** Django(for Python Backend Development), C/C++, JavaScript, MySQL, HTML/CSS

**(Product Management)** Service Planning, Competitive Analysis, Technical Writing, UI/UX Research

**(Languages)** Korean (Native), English (B1-Intermediate)

## Certifications

**(Cloud) AWS Certified Cloud Practitioner** | Apr 2025 (Registration No: 55d2eda5e9284eb2bd9678712a3db1)

**(SQL) SQL Developer (SQLD)** | Apr 2024 (Registration No: SQLD-052015707)

**(ICT) TOPCIT Level 3** | Oct 2023 (Registration No: TL2302004893)

## Military Service

**Republic of Korea Army** | Sergeant (Vehicle Driver) | Sep 2020 - Mar 2022 | Completed mandatory military service.