

Jihun Song

Soongsil University
서울특별시 동작구 상도로 369
songjh041207@gmail.com
+82) 10-3429-2125

EDUCATION

Mar. 2023 ~ Present	Soongsil University Department of AI Convergence <i>Bachelor Student</i> GPA: 3.94 / 4.5	Seoul, Korea
------------------------	--	-----------------

RESEARCH INTERESTS

- Large Language Models
- Natural Language Processing
- Retrieval-Augmented Generation

WORK EXPERIENCES

- **Intern | DREAMTECH, Korea | Jan. 2025 – Feb. 2025**
 - Utilized OpenMV and MicroPython to develop and test embedded vision-based sensor modules.
 - Gained practical experience applying computer vision in real-world, resource-constrained environments.

PROJECTS

- **Satellite Imagery-Based Industrial Emission Analysis | Data Creator Camp | Aug. 2025 – Present**
 - Tackled three computer vision missions using satellite data: chimney detection (object detection), chimney height estimation (regression), and industrial complex segmentation (semantic segmentation).
- **RAG Chatbot for Department Information | Soongsil University | May 2025 – Present**
 - Collected and chunked documents to generate OpenAI-based embeddings for retrieval-augmented generation.
 - The RAG-based system achieved an average F1-score of ~0.9 per question on domain-specific academic queries.
- **Transfer Learning for CIFAR-100 Image Classification | Soongsil University | May 2025 – Jun. 2025**
 - Fine-tuned pre-trained CNNs with data augmentation and redesigned classifier heads.
 - Achieved 88% top-1 accuracy on CIFAR-100 using transfer learning with EfficientNet-B0 pretrained on ImageNet (original ImageNet top-1 accuracy: 77.7%).

- **Integration of Career Counseling Feature into AI Department Student App | Soongsil University | Dec. 2024 – Feb. 2025**
 - Developed an iOS interface and backend integrated server communication for scheduling Zoom-based counseling sessions.
 - Improved skills in user-centered UI design and client-server communication architecture.
- **Development of Algorithm Review Note using Baekjoon API | Soongsil University | Oct. 2024 – Dec. 2024**
 - Built a full-stack review note platform using Spring Boot and MySQL with algorithm problem logging.
 - Strengthened understanding of server-side development and API integration.
- **CNN-Based Food Image Classification for Nutritional Information Prediction | Soongsil University | Oct. 2023 – Dec. 2023**
 - Trained a CNN model to classify food images and predict nutritional attributes.
 - Understood the importance of visual feature extraction and proper labeling in image classification tasks.

SKILLS AND TECHNIQUES

- Languages: Python, C/C++, SQL, Swift
- Tech Stack: Pytorch, iOS, Spring Boot, Mysql, github

RELEVANT COURSEWORK

- Data Structures (Spring 2024)
- Algorithms (Fall 2024)
- Machine Learning (Fall 2024)
- Deep Learning Programming (Spring 2025)
- Artificial Intelligence (Spring 2025)