

# Jihun Song

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## EDUCATION

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

## RESEARCH INTERESTS

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

## WORK EXPERIENCES

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- **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

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- **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

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

## RELEVANT COURSEWORK

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