Woojin Park

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Education

Mar 2021 – Feb 2026 (Expected)	**Sahmyook University**, Seoul **B.S., Computer Science and Engineering**, Major in **Software (GPA: 4.05 /4.5)**

Research Experience

Sep 2025 – Present	**Medical Big Data Laboratory**, Sungkyunkwan University **Research Intern**, Advisor: *Prof. Seung-Won Lee*
Jun 2025 – Aug 2025	**Big Data-Driven AI Lab**, Seoul National University of Science and Technology **Research Intern**, Advisor: *Prof. Hyuk-Yoon Kwon*

Projects

Medical AI

Jun 2025 – Aug 2025 — Self-supervised Federated Learning for Diabetic Retinopathy Classification
• A Collaborative project between Seoul National University of Science and Technology & the National Medical Center (NMC).
• Researched a **domain-agnostic self-supervised federated learning framework** based on **Vision Transformer, Masked Autoencoder**, and **enhanced model explainability** through **Grad-CAM.**

May 2025 – Jun 2025 — Brain MRI Tumor Detection and Visualization using DenseNet121 & Grad-CAM
• Classified brain MRI images into three tumor types and a normal class using softmax and a fine-tuned **DenseNet121**, achieving improved accuracy.
• Applied **Grad-CAM** to visualize tumor regions, enhancing model explainability and medical interpretability.

AI-based

Mar 2025 – Jun 2025 — LLM-Based Sales Conversation Evaluation and Scoring System
• **Software registration: C-2025-019854**
• Industry-Academia Collaborative Capstone Project.
• Refactored LLM prompts and developed a user interface to ensure consistent and structured output.

May 2025 – Jun 2025 — News.ai: News Summarization Service using LLM
• Developed a web-based service that summarizes news articles using an **LLM API** and a **web crawling algorithm**.
• Designed and implemented multiple analysis and summarization styles across different APIs, providing summary rate visualization graphs while optimizing for **mobile-friendly UX/UI design**.

Activities

Mar 2025 – Jun 2025	**On-Campus SW Coding Mentoring Program** **Mentor**, Object Oriented Programming (Language: **Java**)

Awards

Aug 2022	**1st Prize**, On-Campus General English Course Review Contest

Qualifications

Sep 2025	TOEIC 710
Jan 2025	JLPT N3