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: 4.0 /4.5)**

Research Experience

Jun 2025 – Present	**Big Data-Driven AI Lab (BIGBASE)**, Seoul National University of Science and Technology **Research Intern**, Supervised by *Prof. Hyuk-Yoon Kwon*

Projects

Medical Deep Learning

Jun 2025 – Present	**Self-supervised Federated Learning for Diabetic Retinopathy Classification** • Collaborative project by Seoul National University of Science and Technology & the National Medical Center
May 2025 – Jun 2025	**Brain MRI Tumor Detection using DenseNet121, Grad-CAM** • Classified brain MRI images into three tumor types and one normal class using softmax and fine-tuned **DenseNet121** for improved accuracy. • Applied **Grad-CAM** to visualize lesions as part of explainable AI for enhanced medical interpretability.
May 2025	**Chest X-ray Pneumonia Detection using Fine-tuned ResNet50, Grad-CAM** • Improved model accuracy through transfer learning and fine-tuning of **ResNet50**. • Visualized lesions using **Grad-CAM**.

AI-based

Mar 2025 – Present	**MindNote: AI-based Emotional Diary and Psychological Analysis Service** • Developed a web/mobile service that analyzes user diaries using an **OpenAI-based LLM**. • Provided personalized sentiment and psychological feedback for mental health support. • Led the project as a Team Leader, managing the full project lifecycle and delivering an AI-driven sentiment analysis system.
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 and Email Delivery Service using LLM** • Developed a web-based service that summarizes news articles using an **LLM API** and a **web crawling algorithm**, delivers the summaries via email.

SW

Nov 2024 – Dec 2024	**Pegasus: Java-based SNS** • Developed a web-based SNS using **Java** (JSP, Servlets, JDBC, DAO, Ajax), MySQL, HTML, CSS. • Implemented a WebView-based Android application using Android Studio and **Kotlin**.

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

Jan 2025	JLPT N3