

JeongHun Park

Seoul National University | top321902@snu.ac.kr | +82-10-4057-6029 | <https://github.com/PJH6029> |

Objective

Research on large language models (LLMs), spanning pre-training, post-training, multimodal extensions, and interpretability. Long-term goal: recursively self-improving agents with personalized memory modules.

Education

Seoul National University , B.S. in Computer Science and Engineering	Mar. 2020 – Feb. 2026 (Expected)
<ul style="list-style-type: none">• GPA: 3.9/4.3 ($\approx 4.1/4.5$) Major GPA: 4.07/4.3 ($\approx 4.25/4.5$)• Coursework: Artificial Intelligence, Mathematical Foundations of Deep Neural Networks, Operating System	

Experience

Research Intern , Human-Centered Computer System Lab, SNU	Apr. 2024 – Present
<ul style="list-style-type: none">• Contributing to the <i>Lumo</i> project, which develops natural language agents by advancing API-based tool-calling architectures.• Investigating limitations of current agent patterns (e.g., ReAct), proposing new architectures, and rapidly prototyping and evaluating them.• Transitioned from prompt optimization toward agent-pattern research to pursue higher accuracy in complex tasks.	
Software Engineering Intern , FADU	Jul. 2024 - Aug. 2024
<ul style="list-style-type: none">• Built a chatbot using Retrieval-Augmented Generation (RAG) to enable internal access to technical specifications.• Designed a scalable RAG pipeline integrating multiple LLM providers and vector databases, enabling reliable access to internal technical documentation.	
Teaching Assistant , Seoul National University	Sep. 2022 – Present
<ul style="list-style-type: none">• Assisted in teaching the following courses:<ul style="list-style-type: none">– Computer Programming (2022 Fall, Prof. Lee)– Logic Design (2024 Spring, Prof. Lee)– Programming Practice (2024 Fall, Prof. Jeon)– Basic Computing (2024 Fall, Prof. Kim; 2025 Spring, Prof. Yamada)	
Republic of Korea Air Force , Seoul, South Korea (Mandatory Military Service)	Apr. 2022 - Jan. 2024
<ul style="list-style-type: none">• Information Systems Operator & Security Manager - maintained official Air Force website and secure internal networks.	

Projects

ARC-AGI Task Solver using LoRA Fine-Tuning	2025 Spring
<ul style="list-style-type: none">• Fine-tuned Qwen3-4B on the ARC-AGI tasks using LoRA adapters and data augmentation.• Developed an inference pipeline that combines few-shot prompting, test-time training, and majority-voting.• Designed a fine-grained loss function to extract informative gradients from few-shot examples, improving training efficiency.	
Minimal Deep Learning Framework	2024 Winter
<ul style="list-style-type: none">• Built a PyTorch-like framework with define-by-run backpropagation and GPU support via CuPy.• Implemented a dynamic computation graph and automatic differentiation engine from scratch.	

Perspective-Switching RPG Game in Unity

2024 Fall

- Led project architecture and pipeline setup with GitHub/Slack APIs and CI integration.
- Developed seamless perspective-switching mechanics between 2D and 3D in Unity.

National Defense AI Hackathon

- Led a team to develop a CNN-based radar signal classifier on military radar dataset.

Technologies

ML/AI: PyTorch, TensorFlow, LangChain, Google ADK

Software: Python, C/C++, C#, Java, Kotlin, Spring Boot, Django