

Seunghyuk Oh

Master Student in Artificial Intelligence

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Education

M.S. in Artificial Intelligence Sep 2023 – Oct 2025
Korea Advanced Institute of Science and Technology

B.S. in Electrical Engineering Feb 2017 – Oct 2023
Korea Advanced Institute of Science and Technology
Minor in Computer Science and Industrial & Systems Engineering

Experience

ONEUNIVERSE Jan 2023 – Jul 2023
Machine Learning Engineer Intern

- Developed a persona-controllable chatbot system to enhance user engagement and customization.
- Designed a GPT-3-based chatbot evaluator for assessing conversational quality.
- Implemented a Retrieval-Augmented Generation (RAG) system for consistent persona retention in conversations.

Weebut Inc. Jan 2021 – Dec 2022
Chief Technology Officer

- Led the tech team, overseeing technical aspects of all company products.
- Developed and deployed business solutions like MEDIAR and iN!T using JavaScript-based frontend and backend frameworks.

Projects

iN!T <https://www.venturesquare.net/859963>

- Recruitment solution based on senior developer evaluations.
- Built internal tools and automated operations using NextJS (frontend) and NestJS (backend).
- Created multiple applications for different user roles (juniors, seniors, and companies).

MEDIAR <https://platum.kr/archives/160941>

- AI-powered computer vision solution for lung cancer diagnosis.
- Developed an AI system to analyze high-resolution Whole Slide Images for cancer classification and probability estimation.
- Streamlined the diagnostic process by integrating AI analysis with medical workflows.

Publications

- Jaehyun Nam*, Kyuyoung Kim*, **Seunghyuk Oh**, Jihoon Tack, Jaehyung Kim, Jinwoo Shin, "Optimized Feature Generation for Tabular Data via LLMs with Decision Tree Reasoning," *NeurIPS*, 2024. DOI link.

- Woomin Song*, **Seunghyuk Oh***, Sangwoo Mo, Jaehyung Kim, Sukmin Yun, Jung-Woo Ha, Jinwoo Shin, "Hierarchical Context Merging: Better Long Context Understanding for Pre-trained LLMs," *ICLR*, 2024. DOI link.

**Equal contribution.*

Skills

- **Programming:** Python, JavaScript
- **AI Frameworks:** PyTorch, Huggingface, TorchServe
- **Development:** NestJS, NextJS, Django
- **Databases:** MySQL, Redis
- **Tools:** Docker, Git
- **Cloud Platforms:** AWS (S3, Lambda), Firebase, Vercel
- **Infrastructure:** Slurm

Languages

- **Korean:** Native
- **English:** Intermediate (proficient in professional communication)