

GWANWOO SONG

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EDUCATION

Yonsei University

B.S. in Computer Science

Seoul, South Korea

2020-Present

- GPA: 3.9/4.3

RESEARCH INTERESTS

My research goal is to enable machines to **reason and communicate as effectively as humans, or even better**. I focus on the following key areas to achieve this:

- **Self-Supervised and Unsupervised Learning:** Developing methods that enable language models to learn autonomously from large-scale, unstructured data, reducing reliance on human feedback and improving generalization.
- **Complex Reasoning and Long-Horizon Tasks:** Creating models capable of breaking down complex problems into intermediate steps and planning for long-term outcomes.

RESEARCH

Web Agents with World Models: Learning and Leveraging Environment Dynamics in Web Navigation

Hyeongjoo Chae, Namyoung Kim, Minju Kwak, **Gwanwoo Song**, Kai Tzu-iunn Ong, Jihoon Kim, Seonghwan Kim, Dongha Lee, Jinyoung Yeo

Evaluator Model for LLM in Healthcare

Gwanwoo Song

PROJECTS

University Chatbot and Course Search Engine

AWS-YONSEI 2024 Winter Program

Developed a chatbot using data from the “Everytime” community and a course search engine using Yonsei University’s course catalog.

SKILLS

Programming Languages	• Python, C/C++, Java
Deep Learning Frameworks and Tools	• PyTorch, vLLM, Langchain
Web Dev	• React.js, Node.js, MongoDB, ,HTML, CSS.
Natural Languages	• English (professional working proficiency), Korean (native)

ACADEMIC ACHIEVEMENTS

- **3-1 Semester:** Excellence Award (Top 10%)
- **2-2 Semester:** Honors (Top 3%)

SERVICES

Reviewer

- System-2 Reasoning Workshop, NeurIPS 2024