

Seongwoon Jo

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INTERESTS

AI acceleration, On-device AI, Efficient training, LLMs, World Model

EDUCATION

Ulsan National Institute of Science and Technology (UNIST) Ulsan, Korea
B.S. in Computer Science and Engineering (major) and Industrial Engineering (minor) Mar. 2021 – Present

RESEARCH EXPERIENCE

Integrated Circuits and Systems Lab, UNIST Ulsan, Korea
Undergrad Research Intern (Advisor: Prof. Jongeun Lee) Jul. 2025 – Sep. 2025

- Analyzed latency per operation in dynamic-quantization for Large Language Models (LLMs).
- Implemented Triton kernel for LayerNorm-kernel fusion to optimize performance.

Financial Engineering Lab, UNIST Ulsan, Korea
AICP Program Collaborator (Advisor: Prof. Yongjae Lee) Apr. 2022 – Dec. 2022

- Collected news data through web-crawling and performed data preprocessing.
- Fine-tuned KB-AIBERT model for sentiment analysis on financial news data.

PROFESSIONAL EXPERIENCE

ARI.AI Corp. Ulsan, Korea
AI Researcher (Advisor: Prof. Jooyeon Kim) Feb. 2025 – Nov. 2025

- Trained Nano-GPT based Transformer models from scratch. Adapted custom KV-caching.
- Implemented a world simulation model for the *Valorant* game domain; collaboration with ETRI.

Trip Builder Corp. Ulsan, Korea
Data Engineer and AI Researcher Jul. 2022 – Mar. 2023

- Conducted data crawling and processing for travel data.
- Fine-tuned KoBERT/KoGPT models for sentiment analysis.

HONORS & AWARDS

- **Gold Prize (2nd Place)**, 2nd KAIST-POSTECH-UNIST Data Science Competition Oct. 2022 – Dec. 2022
- Participation Prize, 1st UNIST-POSTECH-KAIST Data Science Competition Oct. 2021 – Dec. 2021
- **Top Prize (Ministry of Science and ICT)**, U-Challenge Festival 2021 Mar. 2021 – Dec. 2021

TEACHING EXPERIENCE

- **Tutor**, Introduction to AI Programming I, UNIST Oct. 2022 – Dec. 2022
- **Tutor**, General Physics I, UNIST Apr. 2022 – Jul. 2022
- **Tutor**, Ulju The Dream Campus – Taught Python to middle school students May 2022 – Dec. 2022
- **Instructor**, Midam Scholarship Foundation & Aramco Korea Ulju-gun Education Program 2021 – 2022

SKILLS

- **Programming Languages:** C, C++, Python, R, HTML/CSS/JS, React
- **Software & Frameworks:** PyTorch, Tensorflow, Scikit-learn, JAX, Triton

REFERENCES

Prof. Jongeun Lee

Department of Electrical Engineering, UNIST
Advisor during undergraduate research intern
Email: jlee@unist.ac.kr
Phone: +82 52-217-2116

Prof. Jooyeon Kim

Department of AI Graduate School, UNIST
Advisor during start-up intern & full-time employee
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