

MINJAE CHOI

minjae Choi@kaist.ac.kr ♦ minjae Choi.cs@gmail.com ♦ minjae Choi.github.io
linkedin.com/in/minjae-choi-7a9160346

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TECHNICAL INTERESTS

My research interests lie in **Efficient ML**, especially for **AI foundation models**, with a focus on **end-to-end foundation model systems** spanning architecture design, large-scale training, low-bit quantization, efficient deployment, and inference kernel optimization. I am also interested in **theoretical computer science**, particularly **algorithmic graph structure theory** and **algorithm design for NP-hard problems**.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) <i>B.S. in Computer Science, AI Systems (Double Major), Mathematics (Minor)</i> – Advisor: Prof. Sungeui Yoon (School of Computing)	Daejeon, South Korea Mar 2025 – Current
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EXPERIENCE

Flexible Machine Learning Lab @ KAIST , (<i>Advisor: Prof. Insu Han</i>) – Co-advised by prof. Sukmin Yun(Vision AI Lab @ Hanyang Univ. ERICA) – Collaborated with Samsung Electronics DS Division	Jun 2026 – Current
Google Gemini Student Ambassador , <i>Team KAIST Include</i> – Received Phase 1 Second Best Activity Team Award	Aug 2025 – Dec 2025
KAIST Include , <i>Head of Promotion</i>	Daejeon, South Korea / Mar 2026 – Aug 2026

PUBLICATIONS

*C: conference / W: workshop / P: preprint / * equal contribution*
Research in progress.

SKILLS

Programming Languages: Python, SQL, C/C++, Rust, Scala
ML Library: PyTorch
Cloud Service: Azure, AWS
High-Performance Computing: Triton, CUDA
Product Design: Rhino, Fusion360, KeyShot

TRAINING

NPU Design Course , <i>KAIST PIM Semiconductor Design Research Center</i> – DNN Core Operation, NPU Architecture, NPU SW Stack & Mapping, Advanced NPU Design	May 2026
LG Aimers (8th) , <i>LG AI Research</i> – Fundamentals of Large Language Models, LLM Compression	Jan 2026 – Mar 2026

PROJECTS

Industrial Projects

Samsung Electronics (Device Solution Division)

Jul 2026 – Current

- Trillion-Scale Language Model Quantization

Personal Projects

ZIPJIGI

Jul 2026 – Aug 2026

- 2026 KB Financial AI Challenge (Hosted by KB Kookmin Bank) (w/ Yelim Lee)
- *Won Excellence Award (KT Award) (Top 1.33%) (including \$2,207.86 Cash Prize, Hiring Perks)*
- Github Repo: <https://github.com/minjaechoics/ZipJiGi>
- Demo Video: <https://www.youtube.com/watch?v=C0442eBrezA>

NVIDIA Nemotron 3 30B Model LoRA Adapter Development

Apr 2026 – Jun 2026

- 2026 NVIDIA Nemotron3 Reasoning Challenge (w/ Jiseok Son, Seungsu Lee)

LG AI Research EXOANE 4 1.2B Model Quantization

Jan 2026 – Apr 2026

- 2026 LG AI Research EXOANE Compression Competition (w/ Jiseok Son, Seungsu Lee, Chaewon Lee)
- **Top 3%** in Semifinal Round, Advanced to the Final Round.

AMPLIFY – Question Driven Collective Learning Platform

Dec 2025 – Jan 2026

- Participated in the Microsoft Imagine Cup 2026 MVP Round

EASY COACH – Vision-based Coaching Platform

Mar 2022 – Sep 2023

- A computer vision-based posture correction tool that automatically analyzes and coaches exercise form

CERTIFICATES

SQL Developer (SQLD)

2025

- Korea Data Agency (K-DATA)

LANGUAGES

KOREAN - Native

ENGLISH – Advanced

- TOEIC 935/990 (2026.02.28)

ADVISOR

Insu Han, Associate Professor at KAIST School of Electrical Engineering

Sukmin Yun, Assistant Professor at Hanyang Univ. ERICA Dept. of Artificial Intelligence

Sungeui Yoon, Associate Professor at KAIST School of Computing

REFERENCES

Yelim Lee, BS in Software Engineering and Financial Engineering at Ajou University

Jiseok Son, BS in Computer Engineering at Hongik University

Seungsu Lee, BS in Computer Engineering at Hansung University

Chaewon Lee, BS in Mathematics and Computer Science at Sogang University