GIHWAN KIM

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[LinkedIn](#), [Personal site](#), [Git](#)

EDUCATION

Chungnam National University
Master of Computer Systems and Software

Republic of Korea, Daejeon
Mar 2024 - Current

Chungnam National University
Bachelor of Engineering

Republic of Korea, Daejeon
Mar 2017 - Feb 2024

EXPERIENCE

Visiting Scholar
Software and Societal Systems department, Carnegie Mellon University
• Participated in a program that pretrains AI, ML, and scalable multimedia data analysis

USA, Pittsburgh
Aug 2025 - Feb 2026

Research Intern
Electronics and Telecommunications Research Institute (ETRI)
• Worked in Artificial Intelligence Computing Research Laboratory
• Implementation and research assistance of light weight AI models

Republic of Korea, Daejeon
Jan 2024 - Feb 2024

Visiting Scholar
Purdue University
• Participated as a Korean Software Square Winter 2023 program.
• Implemented and researched counter drone system with on-device AI.

USA, West Lafayette
Jan 2023 - Feb 2023

Research Student
Embedded Systems Laboratory, Chungnam National University,
• Researched quantization and optimization for a low power computer vision system.

Republic of Korea, Daejeon
Apr 2022 - Dec 2023

SW program
42 Seoul, Innovation Academy (software educational program)
• Implemented mini bash program, mini-C standard library and ray tracing program

Republic of Korea, Seoul
Feb 2020 - Jun 2021

PUBLICATIONS

International Conference

[Oral] Kim, Gihwan, et al. "IPTQ-ViT: Post-Training Quantization of Non-linear Functions for Integer-only Vision Transformers" WACV 2026, The IEEE/CVF Winter Conference on Applications of Computer Vision 2026.

Kim, Gihwan, et al. "Mixed Non-linear Quantization for Vision Transformers." ECCV 2024, European Conference on Computer Vision. Cham: Springer Nature Switzerland, 2024.

Lee, Hanbin, et al. "Lightweight Disaster Semantic Segmentation for UAV On-Device Intelligence." IGARSS 2024, IEEE International Geoscience and Remote Sensing Symposium. IEEE, 2024 (2nd author).

Kim, Gihwan, et al. "Power Efficient Long Range Drone Networking System for UAV Detection." 2023 14th International Conference on Information and Communication Technology Convergence (ICTC). IEEE, 2023.

Domestic Conference

Kim, Gihwan, et al. (2023-12-20). Lightweight Semantic Segmentation Model with ResNet-based Encoder-Decoder Architecture for Edge Device

Awards

ICTC 2023 Best Paper Award   2023
- The 14th International Conference on ICT Convergence (ICTC 2023)

3rd prize   2023
- 2023 CNU SW/AI competition (CNU, Chungnam National University)

3rd prize   2023
- Undergraduate research competition (Korea Software Congress 2023)

Additional

Programming/Scripting Languages: Python, C++, C
Frameworks & Tools: PyTorch, TensorRT