Junhyeong Kim
Undergraduate Researcher
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Education

Jeonbuk National University (JBNU) — Jeonju, South Korea
B.S. in Computer Science and Engineering — *Mar. 2021 – Feb. 2027 (Expected)*

- GPA: Total 4.08 / 4.5 (Major 4.14 / 4.5)
- Relevant Coursework: Computer Graphics, Computer Vision, Linear Algebra, AI, Machine Learning
- Research Interests: Neural Rendering, 3D Vision, Graphics, All Things 3D

Experience

Korea Electronics Technology Institute (KETI), AI Research Division — Jeonju, South Korea
Professional Researcher (Contract) — *Mar. 2026 – Present*

- Developing AI-based video abnormality detection systems.
- Implementing WebGL digital twin visualization tools.

Visual Intelligence Lab (Prof. Se-Ho Lee) — Jeonju, South Korea
Undergraduate Researcher — *Jan. 2025 – Present*

- Conducting research on neural rendering, 3D vision, and image relighting
- Collaborating with industry partners (Movers Inc.) on AI R&D projects

DPRE (Startup) — Jeonju, South Korea
3D Reconstruction & Data Analysis (Part-time) — *Feb. 2025 – Aug. 2025*

- Supporting 3D reconstruction projects through data analysis and preprocessing
- Developing data pipelines for spatial data processing and visualization

JBNU Big Data & AI Group 'JBIG' — Jeonju, South Korea
Club Management Team — *Sep. 2024 – Jun. 2025*

- Organized study schedules and facilitated communication among members as part of the management team (Mar. 2025 – Jun. 2025)
- Managed club operations and coordinated collaborative learning activities

Publications

ECCV 2026 Anonymous
Min Hyeok Bang*, **Jun Hyeong Kim***, Seung-Wook Kim, and Se-Ho Lee

Submitted

Projects

Latent Diffusion-Based Image Relighting
Visual Intelligence Lab, JBNU · Commissioned by Movers Inc. *May 2025 – Jul. 2025*

Reproduced IC-Light architecture using a custom dataset to obtain proprietary UNet weights. Conducted comprehensive validation and contributed to the training pipeline implementation as part of a 4-member team.

- Reproduced IC-Light architecture and adapted it for custom relighting datasets
- Implemented loss functions and training loop pipeline for model optimization
- Conducted reproducibility validation by comparing results with original IC-Light paper
- Verified model performance across diverse lighting scenarios and object categories
- Contributed approximately 30% to the overall project, focusing on training infrastructure

Awards

1st Place, JBNU AI Specialized Education Project *Dec. 2025*
Encouragement Award, JBNU Startup Idea Competition *Jun. 2025*
Award Recipient, JBNU ChatGPT Prompt Engineering Competition *Jan. 2025*

Skills

Programming Python, C/C++
Deep Learning PyTorch