

# DONG-WON LEE

[in linkedin.com/in/dong-won-lee](https://www.linkedin.com/in/dong-won-lee) | [✉ dlehddnjs245@khu.ac.kr](mailto:dlehddnjs245@khu.ac.kr)

## EDUCATION

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### **Kyung Hee University**

*B.S. in Software Convergence* | GPA: 3.81 / 4.50

Mar 2021 – Present, Expected Aug 2027

## EXPERIENCE

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### **ROBROS**

*Software Engineer Intern*

Dec 2025 – Mar 2026

- Developed a Python/C++ camera-streaming pipeline for a humanoid robotics SDK, reducing frame latency in robot visual data transmission.
- Validated the SDK on a physical humanoid robot, verifying camera-streaming functionality, system stability, and readiness for VR-based teleoperation.

### **AIMS Lab, Kyung Hee University**

*Research Intern*

Jul 2025 – Dec 2025

- Investigated ChatGPT use in elementary classrooms through hypothesis-driven analysis of a multimodal classroom-interaction dataset.
- Constructed and validated the dataset, defining annotation criteria and verifying consistency for downstream analysis.

### **Photo Studio Booking Platform**

*Co-founder & Product Manager*

Mar 2024 – Jul 2025

- Led a 5-member team across product development, design, and performance marketing for an iOS studio-booking application.
- Drove early-stage operations spanning B2B studio partnerships, user acquisition, and App Store monetization.

## PROJECTS

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### **Local LLM Infrastructure for Agentic AI Coding**

Mar 2025 – Present

- Building a self-hosted, GPU-based LLM environment for coding agents, deploying vLLM on an NVIDIA DGX Spark.
- Tuning serving configurations (KV-cache quantization, prefix caching) to improve inference stability under constrained GPU resources.

### **Weakly-Supervised Video Anomaly Detection Study**

Jun 2026 – Present

- Studying weakly-supervised video anomaly detection, focusing on temporal video modeling, multiple instance learning (MIL), and anomaly localization from video-level labels.
- Reproducing VAD baselines such as Sultani et al., RTFM, and RefineVAD on UCF-Crime and ShanghaiTech, with AUC-based evaluation.
- Profiling efficiency-performance trade-offs by measuring the impact of feature length and temporal sampling on computation and detection accuracy.

### **Reinforcement Learning Study**

Mar 2025 – Present

- Studying reinforcement learning theory, covering policy optimization, exploration, and offline RL foundations.
- Implementing and evaluating deep RL algorithms in PyTorch on MuJoCo continuous-control benchmarks, including PPO and TD3 with Behavioral Cloning (TD3+BC).

### **Data-Efficient 3D Gaussian Splatting for Sparse-View Reconstruction**

Mar 2026 – Jun 2026

- Applying dataset distillation to input-frame selection for 3D Gaussian Splatting, targeting data-efficient novel-view synthesis under sparse views.
- Running reconstruction experiments on the Mip-NeRF 360 dataset using the gsplat framework.

## MILITARY SERVICE

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**Republic of Korea Army**

*Completed military service as Army Sergeant*

Jul 2022 – Jan 2024

## SKILLS

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**Languages:** Python, C++, TypeScript

**ML & Robotics:** PyTorch, MuJoCo