Seungjoon Cha

Email cktmdwns604@cau.ac.kr **Github** www.github.com/chaseungjoon

Research Interests

Embodied AI, Deep Reinforcement Learning, Machine Learning, Generative World Models

Education

2022 – 2027 **B.S. in Computer Science and Engineering**

Chung-Ang University, Seoul, South Korea

GPA 3.8 / 4.5 *(As of Sep 2026)*

Experience

2026 Aug ~ **Research Intern | AI and Robotics**

VGI Lab, Seoul National University, Seoul, South Korea

- Contributing to ongoing research on visual and geometric intelligence for robotic manipulation tasks, under *Prof. Jaesik Park*'s supervision.

2026 Jul - Aug **Research Intern | AI and Robotics**

IDLab-AIRO, Universiteit Gent, Gent, Belgium

- Contributed to ongoing research on multimodal data pipelines for imitation learning in robotic manipulation tasks, under *Prof. Francis Wyffels*'s supervision.
- Developed robust vision-guided robotic manipulation pipelines for cluttered object grasping and classification using *BrainCo Revo2*, *Realman RM65* and *Universal Robots UR3e* robotic platforms

2025 Sep - Dec **AI Developer | Wildfire Prediction System**

www.github.com/WildFirePrediction/ai

- Engineered a real-time wildfire spread prediction engine utilizing Asynchronous Advantage Actor-Critic (A3C) reinforcement learning.
- Architectured a large scale spatiotemporal data pipeline, ingesting and preprocessing a 200GB heterogeneous dataset including environmental factors, weather patterns and satellite fire detection telemetry.
- Developed a simulation environment to validate model accuracy against Korean historical wildfire progression data.

2025 Jul **SW Education Mentor | High School Outreach Program**

Chung-Ang University SW Education Center, Seoul, South Korea

- Hosted an interactive CS/AI mentoring program for high school students to cultivate foundational programming logic
- Guided students through hands-on creative programming activities utilizing modern AI tools to lower barriers to entry in software engineering

2023 Dec - **2025** Jun **Patient Administration Specialist | KATUSA**

65th Medical Brigade, 8th U.S. Army, Camp Humphreys, Pyeongtaek, South Korea

- Served as a KATUSA (Korean Augmentation to the U.S. Army), a competitively selected group of South Korean Army soldiers embedded within the U.S. Army.
- Facilitated critical cross cultural communication and optimized daily administrative workflows between Korean authorities and U.S. medical staff.

Skills

Technical Skills	**Programming Languages**	Python, C++, C
	Framework & Tools	PyTorch, TensorFlow, Keras, Git, Linux
Language Skills	**Korean** (Native), **English** (Fluent, **C2**), **French** (Intermediate, **B1**)	