

Jihoon Kim

AI Research Engineer & Technical Lead

📍 Seoul, Republic of Korea · 🌐 GitHub · 🔗 LinkedIn · 🎓 Google Scholar

SUMMARY

AI research engineer and technical lead building production-grade multimodal agents and generative AI systems. Leads an AI team in setting research direction and technical objectives while remaining hands-on across model development, evaluation, inference optimization, and deployment.

EXPERIENCE

Cinamon

Seoul, Republic of Korea

AI Research Engineer, AI Lead (promoted Oct. 2023)

Feb 2023 – Present

- Led research direction, prioritization, technical reviews, and delivery against team objectives as the AI team scaled, aligning researchers, engineers, motion specialists, and product teams to turn research into production-ready outcomes.
- Proposed and productized an agentic LLM/VLM system that coordinated multimodal reasoning and tool use to convert creative intent into precise shot specs and editable 3D previz, ensuring reliable execution, evaluation, and observability in production.
- Built a reusable generative-motion lifecycle spanning 3D data preparation, distributed model training, quantitative and expert evaluation, inference optimization, and production deployment.
- Built and maintained a reusable 3D data-processing package that transformed heterogeneous assets into validated, training-ready representations, establishing the data foundation for the company's AI model development and production workflows.
- Led the overall research and publication process for a team paper as corresponding author, guiding research direction, experimental design, technical review, and manuscript development.

KakaoBrain

Seongnam, Republic of Korea

Research Scientist Intern

Feb 2022 – Aug 2022

- Conducted research and experiments across generative modeling approaches, including GANs, flow-based models, diffusion models, and text-to-image generation, covering model design, training, and evaluation.
- Conceived and conducted a research project on variable-length, language-conditioned motion generation, covering the full research lifecycle as first author, from problem formulation and model development to experimentation, evaluation, and manuscript submission.

AILYS (formerly Solidware)

Seoul, Republic of Korea

Machine Learning Scientist

Sep 2017 – Dec 2020

- Delivered 10+ on-site machine-learning engagements across Korea, Japan, Vietnam, and Malaysia, working directly with client stakeholders to translate business objectives into well-scoped predictive-modeling problems and technical requirements.
- Developed and validated predictive models against client-defined criteria, iterating with stakeholders to align technical outcomes with operational needs.
- Researched, developed, and maintained an AutoML platform, translating machine-learning research and recurring customer requirements into reusable product capabilities.
- Enabled adoption by training business users at client organizations to use the solution independently in their day-to-day workflows.

Hanwha General Insurance

Seoul, Republic of Korea

Corporate Property and Casualty Underwriter

Dec 2015 – Apr 2017

- Underwrote personal and corporate property-insurance products for Hanwha Group affiliates, evaluating property exposures and policy risk.

EDUCATION

Korea University

Seoul, Republic of Korea

M.S. in Artificial Intelligence

Mar 2021 – Feb 2023

- GPA: 4.38 / 4.50; advised by Sungjoon Choi.
- Research: generative models, vision models, deep learning and its applications, human motion generation, and kinematics.

Hanyang University*B.S. in Electronic Engineering*

• GPA: 4.08 / 4.50 cumulative; 4.13 / 4.50 major; Summa Cum Laude.

Seoul, Republic of Korea

Mar 2010 – Feb 2016

Drexel University*International Exchange, Electrical and Computer Engineering*

• GPA: 3.87 / 4.00; Dean's List in all enrolled quarters.

Philadelphia, U.S.

Aug 2014 – Sep 2015

PUBLICATIONS

Controllable Long-term Motion Generation with Extended Joint Targets Mar 2026Eunjong Lee, Eunhee Kim, Sanghoon Hong, Eunho Jung, **Jihoon Kim**[†]WACV 2026 · [Project](#) · [Paper](#) · [Code](#) · [Video](#)**Robust and Expressive Humanoid Motion Retargeting via Optimization-Based Rig Unification** Oct 2025Taemoon Jeong, Taehyun Byun, **Jihoon Kim**, Keunjun Choi, Jaesung Oh, Sungpyo Lee, Omar Darwish, Joohyung Kim, Sungjoon ChoiIROS 2025 · [Project](#) · [Paper](#) · [Code](#) · [Video](#)**FLAME: Free-form Language-based Motion Synthesis & Editing** Jun 2023**Jihoon Kim**, Jiseob Kim, Sungjoon ChoiAAAI 2023 (Oral) · [Project](#) · [Paper](#) · [Code](#) · [Video](#)**Conditional Motion In-betweening** Dec 2022**Jihoon Kim**, Taehyun Byun, Seungyoun Shin, Jungdam Won, Sungjoon ChoiPattern Recognition · [Project](#) · [Paper](#) · [Code](#) · [Video](#)**Learning Joint Representation of Human Motion and Language** Oct 2022**Jihoon Kim**, Youngjae Yu, Seungyoun Shin, Taehyun Byun, Sungjoon ChoiarXiv · [Paper](#)**PATENTS**

Method for applying user intension to unsupervised learning and apparatus therefor Jun 2021[Korean Patent No. 102273868](#)**Method and apparatus for generating supervised learning model based on unsupervised learning, and method and apparatus for analyzing unsupervised learning model using the supervised learning model** Jun 2021[Korean Patent No. 102273867](#)**Method and apparatus for automatically generating variables for data modeling** May 2019[Korean Patent No. 101976689](#)**SKILLS**

Generative Models: Generative AI Models, Multimodal Generative Models, Human Motion Generation**Agentic AI Systems:** LangGraph/LangChain, Stateful Workflow Orchestration, Inngest Durable Execution, Structured Outputs & Tool Use, LLM Evaluation & Observability**Model Training & Deployment:** Model Pre-Training & Post-Training, Large-Scale / Distributed Training, Inference Optimization, Production Model Serving**3D Creative Pipelines:** Blender-based Pipeline Automation, 3D Data Processing, Character Motion Retargeting, 3D Scene Generation Workflows**Languages:** Korean (native), English (working proficiency)**HONORS AND AWARDS**

Bronze Award · Kyobo Insuretech Hackathon, Kyobo Insurance 2018**Bronze Award** · Culture and Tourism Big Data Contest, Korea Culture & Tourism Institute 2017**First Prize** · Engineering School Capstone Design Fair and Graduation Project Competition, Hanyang University 2015**Qualcomm Scholarship Program** · Qualcomm Korea 2014**Best Tutor Award** · Engineering Mathematics Tutoring Program, Hanyang University 2014**National Science & Technology Scholarship** · KOSAF 2014 – 2015**Academic Excellence Award** · Hanyang University 2010 – 2015

ACADEMIC & COMMUNITY ACTIVITIES

Namu Orchestra · Concertmaster, Violinist	2023 – 2024
Drexel University Orchestra · Violinist	2014 – 2015
Hanyang University · Engineering Mathematics Tutor (Best Tutor Award)	2014
Hanaklang , Hanyang University Amateur Orchestra · Violinist	2011 – 2015