

TAEWOON KIM

AI Researcher & Engineer



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SUMMARY

AI researcher and engineer with experience spanning research, product, and deployment across a range of AI systems. I care deeply about building intelligent systems, memory for AI agents, and world models that are useful in practice.

TECHNICAL SKILLS

AI Systems & LLMs

Agentic AI, RAG & Memory, Multimodal AI, NLP/CV, Reinforcement Learning, Knowledge Graphs

Full-Stack AI Engineering

Python, SQL/NoSQL, Backend APIs, MCP (Model Context Protocol), Tool-Using Agents, Model Evaluation

Product & Deployment

Deep Learning Frameworks, Docker, Cloud Deployment (AWS/GCP/Azure), AI Product Prototyping

EXPERIENCE

May/2026
- Current

Founding Engineer

Stateloop

- Building causal action-data infrastructure that turns gameplay into training data for world models.
- Working on capture, curation, and quality systems for large-scale interactive datasets used in physical AI and simulation-heavy model development.

Apr/2024
- Current

Founder

HumemAI, Amsterdam, Netherlands

- Founded and architected HumemAI, a persistent memory layer for AI agents built on hybrid retrieval across SQL and NoSQL stores.
- Design core memory operations (store, retrieve, reason, and update) to improve long-horizon interaction quality.
- Lead grant-funded and commercial AI projects from model design to deployment-ready integrations in customer-facing applications.

Mar/2025
- Oct/2025

Machine Learning Engineer

Byborg Enterprises, Luxembourg

- Built multimodal AI companion capabilities for human-like interactions across text, audio, image, and video channels.
- Designed and adapted large generative models for personalization, response quality, and robust multimodal behavior.
- Partnered with product and engineering teams to transition research prototypes into production, real-time user systems.

Sep/2020
- Dec/2024

Scientific Researcher

Learning and Reasoning Group, Vrije Universiteit Amsterdam, Netherlands

- Conducted AI research across NLP, computer vision, reinforcement learning, and knowledge-graph-based reasoning.
- Designed and validated learning systems for memory, decision-making, and generalization in complex environments.
- Taught and supervised B.Sc. and M.Sc. students in Python, machine learning, and AI-focused projects.

Nov/2018
- Sep/2020

Computer Vision Engineer

Nect, Germany

- Applied machine learning, primarily deep learning, to improve ID verification and selfie verification pipelines.
- Worked with multimodal data including speech, images, and video for identity-related product workflows.
- Collaborated closely with DevOps and front-end teams to integrate computer vision systems into production products.

Jan/2018
- Sep/2018

Intern and M.Sc. Thesis Student

ABB, Germany

- Applied robot vision with an RGBD camera.
- Trained computer vision deep learning models, e.g., ResNet, to extract features relevant for robotic pick and place skills.
- Used both RobotStudio and Robot Web Services based on RESTful APIs to interact with both virtual and real robot controllers.

Jul/2014
- Sep/2014

B.Sc. Intern

Brain Signal Processing Lab, Korea University, South Korea

- Processed and visualized brain-signal data using mathematical and computational methods.
- Supervised by Jong-Hwan Lee

EDUCATION

Sep/2020
- Current

PhD. Artificial Intelligence, Vrije Universiteit Amsterdam, Netherlands

- Dissertation: *"A Machine With Human-Like Memory Systems"*, focused on knowledge-graph-based memory and reinforcement learning for reasoning, exploration, and memory management.
- Supervised by Michael Cochez, Vincent François-Lavet, and Frank van Harmelen

Oct/2015
- Sep/2018

M.Sc. Computer Science, Hamburg University of Technology, Germany

- Focused on deep learning and computer vision.
- Wrote M.Sc. thesis *"One Shot Learning for Object Recognition in Pick and Insert Applications"* in collaboration with ABB and supervised by Alexander Schlaefer

Mar/2008
- Aug/2015

B.Sc. Electrical Engineering, Yonsei University, South Korea

- Focused on digital signal processing and computer vision.
- Wrote B.Sc. thesis *"Obstacle detection for the blind in C++ with OpenCV"*, supervised by Kwanghoon Sohn
- The lengthened period of study includes 2 years of mandatory social service.