

TAEWOON KIM

AI Researcher & Engineer



taewoon.kim
@tae898
Google Scholar

taewoon@humem.ai
github.com/tae898
linkedin.com/in/tae898

SUMMARY

AI researcher and engineer, and co-founder of two AI startups. At Stateloop, I turn web-game data into world models and VLAs for physical AI. At HumemAI, I build open-source memory for AI agents. My long-term goal is AGI.

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	Co-Founder - Collect gameplay data from web games through partners, process it, and train models on it for customers (world models, world action models, VLAs, embodied reasoning). - Lead sales, engineering, AI research, and fundraising as a co-founder.	Stateloop, Amsterdam, Netherlands
Apr/2024 - Current	Founder - Build multi-model databases and use them to create a memory layer for AI agents, inspired by cognitive science, so that both humans and agents can use it easily. - Lead grant-funded and commercial AI projects from model design to deployment-ready integrations in customer-facing applications.	HumemAI, Amsterdam, Netherlands
Mar/2025 - Oct/2025	Machine Learning Engineer - 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.	Byborg Enterprises, Luxembourg
Jan/2023 - Dec/2023	Visiting Researcher - Collaborated with the group's researchers on human-robot co-learning and teamwork. - Contributed memory and knowledge-graph expertise toward helping robots reuse prior collaboration experience to become better teammates.	Interactive Intelligence Group, TU Delft, Netherlands
Sep/2020 - Dec/2024	Scientific Researcher - 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.	Learning and Reasoning Group, Vrije Universiteit Amsterdam, Netherlands
Nov/2018 - Sep/2020	Computer Vision Engineer - 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.	Nect, Germany
Jan/2018 - Sep/2018	Intern and M.Sc. Thesis Student - 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.	ABB, Germany

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 Schlaefter

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.