

# 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 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

<b>AI Systems &amp; LLMs</b>	Agentic AI, RAG & Memory, Multimodal AI, NLP/CV, Reinforcement Learning, Knowledge Graphs
<b>Full-Stack AI Engineering</b>	Python, SQL/NoSQL, Backend APIs, MCP (Model Context Protocol), Tool-Using Agents, Model Evaluation
<b>Product &amp; Deployment</b>	Deep Learning Frameworks, Docker, Cloud Deployment (AWS/GCP/Azure), AI Product Prototyping

## EXPERIENCE

May/2026 - Current	<b>Founding Engineer</b> • 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.	<b>Stalooop, Amsterdam, Netherlands</b>
Apr/2024 - Current	<b>Founder</b> • 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.	<b>HumemAI, Amsterdam, Netherlands</b>
Mar/2025 - Oct/2025	<b>Machine Learning Engineer</b> • 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.	<b>Byborg Enterprises, Luxembourg</b>
Sep/2020 - Dec/2024	<b>Scientific Researcher</b> • 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.	<b>Learning and Reasoning Group, Vrije Universiteit Amsterdam, Netherlands</b>
Nov/2018 - Sep/2020	<b>Computer Vision Engineer</b> • 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.	<b>Nect, Germany</b>
Jan/2018 - Sep/2018	<b>Intern and M.Sc. Thesis Student</b> • 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.	<b>ABB, Germany</b>
Jul/2014 - Sep/2014	<b>B.Sc. Intern</b> • Processed and visualized brain-signal data using mathematical and computational methods. • Supervised by Jong-Hwan Lee	<b>Brain Signal Processing Lab, Korea University, South Korea</b>

## 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.