

Hoseong Ahn

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EDUCATION

Hana Academy Seoul

High School

Seoul, KR

Mar 2022 — Feb 2025

- Cumulative GPA: 3.43/4.0

• Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence & Future Society, Computational Physics, Programming, AP Computer Science A, Advanced Discrete Mathematics, Basic Programming

Sungkyunkwan University

Suwon, KR

Bachelor's of Science, Dept. of Intelligent Software, College of Computing & Informatics (CCI) Mar 2025 — Present

- 1st Semester GPA: 4.26/4.5

- 2nd Semester GPA: 4.45/4.5

- Cumulative GPA: 4.36/4.5

• Relevant Coursework: Basis & Practice in Programming, Introduction to Data Structures, Linear Algebra, Introduction to System Programming, Probability & Statistics, Computer Programming for Engineers, Introduction to Artificial Intelligence, Introduction to Computer Architectures

WORK EXPERIENCE

Research Internship

Jul 2025 — Present

Suwon, KR

Speech, Language, Perception, and Reasoning (SLPR) Lab., Sungkyunkwan University

- Conducting research on multimodal LLMs, speech and language AI, and data processing pipelines for deep learning
- Correcting errors in TED-LIUM corpus to improve automatic speech recognition (ASR) benchmark reliability and model training quality
- Developing datasets and ASR models for extreme long-form multilingual speech-to-text systems
- Implementing Generative Error Correction (GER) models to enhance automatic speech recognition ASR accuracy

PUBLICATIONS

Evaluating Hallucinations in Multimodal LLMs with Spoken Queries under Diverse Acoustic Conditions,

Preprint (doi.org/10.48550/arxiv.2510.08581)

2025

- Contributors: Hansol Park, **Hoseong Ahn**, Junwon Moon, Yejin Lee, Kyuhong Shim
- Contributions: Conducted experiments and contributed to manuscript review and editing

Famigo: A Privacy-Preserving Hybrid Voice Assistant for Multi-User Family Environments , ICEIC 2026

(iceic.org/users/paper_download.vm)

2025

- Contributors: **Hoseong Ahn**, Junwon Moon, Hansol Park, Kihun Lee, Kyuhong Shim
- Contributions: Primary implementation and framework design, manuscript preparation

EXTRACURRICULAR ACTIVITIES

Qualcomm Edge AI Developer Hackathon - Korea

Jul 2025 — Aug 2025

- Developed Famigo, an on-device AI assistant with voice interface and shared memory features for family environments
- Integrated multiple system components to run natively on Snapdragon X Series-powered Copilot+ PC
- Implemented edge AI-based application leveraging on-device processing for privacy-preserving voice assistance
- Project repository: BetaTester772/famigo_ui

Google Developer Groups on Campus, Sungkyunkwan University

Sept 2025 — Present

- Participated in “Global IT Expert Meets Kingoins” tech talk series hosted by GDG on Campus SKKU
- Delivered a presentation on semiconductor technology to fellow developers and students

2025 SKKU Casual Hackerthon

Sept 2025

- **Awarded 2nd Place** — Extended Famigo into Famiso, addressing the hackathon theme of “isolation” by rebalancing family connection and personal space
- Added Instagram Stories-inspired sharing features, allowing family members to post photos and text updates
- Developed AI-powered daily briefing system that synthesizes each member’s stories into 3-line summaries
- Implemented family-wide 1-minute consolidated briefing delivered once per day to maintain connection across distances

- Built SetTransformer-inspired histogram prediction model (ISAB-style encoder) to estimate class grade distributions from limited score samples
- Achieved near-perfect accuracy with MSE 0.003, JS Divergence 0.03, and EMD 0.03 against ground truth distributions
- Developed FastAPI backend with Redis caching, and OpenAI API integration for personalized study advice
- Deployed on Oracle Cloud with Docker containerization (FastAPI + Redis + Caddy reverse proxy)
- Project repository: BetaTester772/2025-realthon

SKILLS

- **Programming Languages:** Python, C/C++, HTML/CSS/JavaScript, Java
- **Technologies:** PyTorch, TensorFlow, FastAPI, Svelte, Tailwind CSS, Git, UNIX(Linux), Docker, Caddy