JoonHee Lee

Aug 13, 2001

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EDUCATION

Advanced class at KNU Computer Engineering Education Institute for Gifted, Daegu, Korea	*2014. Dec ~ 2015. Dec*
Hongik Univ, Seoul, Korea	*2021. Mar ~ 2025. Feb*
- B.E. College of Computer Engineering	
Yonsei Univ, Seoul, Korea	*2025. Mar ~*
- M.S. School of Integrated Technology	

RESEARCH INTERESTS

Point of view in understanding the world better
- *Efficient & real-time LLM inference on mobile devices & robots*
- *Surroundings & Human Context Understanding via Sensing*

Point of view in teaching the model in ethic way
- *Federated Learning*

EXPERIENCES

[EIS lab @ Yonsei Univ]

M.S. Degree Student	*2025. Mar ~*
Undergraduate Intern	*2024. Feb ~2025. Feb*

Study on Artificial Intelligence using Embedded Sensors & Small Computing Power
- *Federated Learning*
- *Surroundings & Human Context Understanding via Sensing*

[HCS lab @ CAU]

Undergraduate Intern	*2022. Dec ~2024. Dec*

Study on Participatory Medical Technology through Radar Sensor and Deep Learning Model
- *RFID reader & RF signal tracking for detecting human behavior.*
- *Low price & High quality stethoscope & SCG measurement using smartphone with deep learning.*

[VAST]

Founder, Team Lead	*2020. Jan ~2023. Aug*

Project to make service that enables data transfer without OS barrier
- *ARA Project*
    - *Mobile(iOS & Android) Native Development*

AWARDS AND HONORS

Scholarship Student @ KFOC (kfoc.or.kr)	2024
1st Place @ KU-Cambridge Campus Sharing Economy MAKEathon	2024
2nd Place @ CCEI Sejong Make-A-Thon	2021
Excellent Youth Scholar Award @ KSCY	2019
Scholarship Student @ Su-Seong Future Education Foundation (ssef.or.kr)	2018
3rd Place @ POSTECH Make-A-Thon	2018

ACTIVITIES

NAEK YEHS (Young Engineer Honor Society in National Academy of Engineering of Korea)	2021. Sep ~ Present

- Lifetime Regular (or Full) Member

P.EYE (AR/VR media art team)	2023. Aug ~ Present

- 2023, Software team VR(Unity) development
- 2024, Director of Software team
- 2025, President

NAEK Engineering & Technology Book Support Program	2024 ~ 2025

- Review Committee Member

PROJECTS

SKDM : Mobile sensor based keyboard stroke decoding model. Accelerometer & Microphone used.	2023. Oct ~ Nov
Penso : Gaze tracking project using OpenCV & DL	2021
Hangul Clock : Android based clock widget (new design of clock using Korean).	2018
New Sense : Obstacle detect from back & warning system for bike user	2018
WAG : UAV system to operate under the Water, over the Air, on the Ground	2014 ~ 2019

ETCS

서울런 멘토링 멘토 : 차상위 계층 학생 진로, 학습 멘토링 & 감성 관리	2022. Aug ~ 2023. Feb
홍익대학교 공학혁신센터 코딩 수업 멘토 : 초, 중, 고 대상 코딩 교육	2022. May ~ Present
마포구청 도화 청소년 문화의 집 멘토 : 매 학기말, 중, 고등학생 대상 전공 설명회	2022. June ~ Present
Presenter @ SOSCON (Samsung Open Source Conference)	2017

- WAG Project display

Speaker @ 서울혁신센터 제 5 회 기술 공유회	2017

- Introduction to opensource technology of drone & Modeling on various material to achieve lightweight.