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*
Daeryun High School, Daegu, Korea	*2017. Mar ~ 2020. Feb*
Hongik Univ, Seoul, Korea	*2021. Mar ~ 2025. Aug*
College of Computer Engineering	
(3 - 1, G.P.A. 4.15 / 4.5)	

RESEARCH INTERESTS

HCI (Human Computer Interaction)
- Embedded sensor based ML, Sensor based human context understanding

Federated Learning

EXPERIENCES

[EIS lab @ Yonsei Univ] Undergraduate Intern   *2024. Feb ~Present*

Study on Artificial Intelligence using Embedded Sensors & Small Computing Power
- *RF-based food nutrient & calorie estimation*

[HCS lab @ CAU] Undergraduate Intern   *2022. Dec ~2024. Feb*

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] Fouder, Team Lead   *2020. Jan ~2023. Aug*
- *ARA Project*
    - *Mobile(iOS & Android) Native Development*
    - *Project to make service that enables data transfer without OS barrier (araconnect.site)*
- *Mogak Project*
    - *ML/DL Development*
    - *Place recommendation service to meet user's mood, and needs. Image ambiance match & review comment analysis.*

AWARDS AND HONORS

1st Place @ KU-Cambridge Campus Sharing Economy MAKEathon	2024
2nd Place @ 세종혁신센터 세종 스마트 메이커톤	2021
Excellent Youth Scholar Award @ KSCY	2019
Scholarship Student @ 수성인재육성장학재단	2018
3rd Place @ POSTECH 무한상상 메이커스 대회	2018

ACTIVITIES

Member @ NAEK YEHS(한국공학한림원 차세대 공학리더)	2021. Sep ~ Present

- 2023, Dept of Human Resource

- 진로 및 공학 교육 봉사 및 회원 대상 세미나 참여

VR software engineer @ P.EYE (AR/VR media art team, hand interaction development) 2023. Aug ~ Present
- 2023, Software team VR(Unity) development
- 2024, Director of Software team

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.

PROJECTS

SKDM : Mobile sensor based keyboard stroke decoding model. Accelerometer & Microphone used.	2023. Oct ~ Nov
Penso : Gaze tracking project using OpenCV & DL	2021
한글시계(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 that is able 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