

# JoonHee Lee

Aug 13, 2001

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## EDUCATION

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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. Feb
College of Computer Engineering	

## RESEARCH INTERESTS

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Federated Learning  
HCI (Human Computer Interaction)

- Extracting features(insights) from sensor data

## EXPERIENCES

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**[EIS lab @ Yonsei Univ] Undergraduate Intern** 2024. Feb ~Present  
*Study on Artificial Intelligence using Embedded Sensors & Small Computing Power*

- Federated Learning
- Extracting insights from edge device sensor data

**[HCS lab @ CAU] Undergraduate Intern** 2022. Dec ~Present  
*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] Foudner, Team Lead** 2020. Jan ~2023. Aug

- ARA Project
  - o Mobile(iOS & Android) Native Development
  - o Project to make service that enables data transfer without OS barrier ([araconnect.site](#))
- Mogak Project
  - o ML/DL Development
  - o Place recommendation service to meet user's mood, and needs. Image ambiance match & review comment analysis.

## AWARDS AND HONORS

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

## ACTIVITIES

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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

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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

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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