



EDUCATION

Sungkyunkwan University

Seoul, Korea

Mar 2019 – Mar 2024

B.S in Computer Science and Engineering

Overall GPA : 3.81/4.5 (3.61/4.0)

Major : 3.95/4.5 (3.71/4.0)

The University of Texas at Austin

Austin, United States

Jan 2022 - May 2022

Exchange student, Electrical and Computer Engineering department

CONTACT

✉ jeongahs2@g.skku.edu

🌐 [linkedin.com/in/jeongah-jasmine-lee](https://www.linkedin.com/in/jeongah-jasmine-lee)

🔗 <https://github.com/jjeongah>

RESEARCH INTERESTS

HCI

AI/ML

SCHOLARSHIP

• 2022 Academic Excellence Scholarship

- Awarded to the top 12% in academic performance

• 2021 Creative Scholarship

- Awarded by Sungkyunkwan University, which aims to support students who have undertaken challenging research and learning achievements

• 2019 Sungkyun Software Scholarship

- Awarded by Sungkyunkwan University College of Computing

• 2019 MegastudyEdu Scholarship

- Awarded by MegastudyEdu Co. Ltd., which aims to support students admitted to the university with excellent academic performance.

PUBLICATION

IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device management in Smart Spaces [\[Link\]](#)

IEEE Network Magazine, 8 pages

Yoseop Joseph Ahn, Minje Kim, Jeongah Lee, Yiwen Shen, Jaehoon Paul Jeong

June 2023

- Developed an application using JAVA and Android Studio that visualizes smart devices through a cloud system, aiming to enhance the usability of an IoT device management app
- Enhanced location tracking accuracy by 32%~39% through the integration of Smart Pedestrian Dead-Reckoning and Particle Filter-Indoor Positioning algorithm
- Participated in literature review, research design, and result interpretation. Conducted accuracy testing experiments and visualized the results using Python

IoT

HCI

WORK EXPERIENCE

Cipherome Inc [\[Link\]](#)

ML Engineer Intern in Advanced Research Team

San Jose, United States

Mar 2023 - Aug 2023

- Developed ML functionality for a clinician-focused medical data analysis platform and implemented validation for data processing, feature engineering, and model training steps using OMOP CDM (Observational Medical Outcome Partners-Common Data Model) data using Python
- Conducted research on 'Patient Clustering' and proposed it as a new function in the platform to advance healthcare practices
- Designed wireframes that include overall UI/UX using Figma to improve the usability of the platform
- Performed data analysis using UH Cleveland data, focusing on zinc levels and COVID severity, and visualized the result using the Kaplan-Meier curve

AI/ML

HEALTH CARE

HCI

HONORS & AWARDS

Chung-ang University AI and Humanities Academic Paper contest

Jan 2023

- Wrote the paper titled "Risks and Countermeasures of AI Utilization in Public Safety and Criminal Justice Procedures: Addressing Discrimination Arising from Algorithmic Bias"

AI/ML


 Third Place

Kookmin University self-driving contest

Jul 2021 - Nov 2021

- Wrote the lidar part of python code to drive the Xytron car using the Robot Operating System
- [\[Link\]](#) Performance review is available starting at 4:30:29 in the video

Robotics

 First Place among 76 teams

AI x Bookathon contest [\[Link\]](#)

Jan 2021

- Created a novel using the GPT-2 model with the theme of 'the path of life discovered on the lost journey'

AI/ML

NLP

 Third Place

VOLUNTEER & LEADERSHIP

Panama World Friends Korea ICT e-volunteer for Microsoft Education

Nov 2020 - Dec 2020

- Won the excellence prize from the National Information Society Agency

Mobile Application Programming Mentoring at Youngbok Girls' High School

Sep 2019 - Dec 2019

- Taught how to create mobile apps using App Inventor and provided hands-on guidance on app development principles and UI design

College of Computing Student Council Public Relations Team

Mar 2019 - Dec 2019

- Designed posters for public notice every week as a member of public relations team

PROJECTS

Boostcamp AI Tech Natural Language Processing track [\[Link\]](#)

Hosted by Naver Connect Foundation

Sep 2022 - Feb 2023

[1] Semantic Text Similarity Project [\[Link\]](#)

- Constructed a model that inputs two sentences and measures scores from 0 to 5 points depending on the semantic similarity between the sentence pairs
- Worked on Exploratory Data Analysis(EDA), Data augmentation, and K-fold Cross Validation implementation

[2] Relation Extraction Project [\[Link\]](#)

- Constructed a model that predicts the properties and relationships of words in sentences using KLUE data
- Constructed Auxiliary Model and worked on data augmentation and ensemble

[3] Open-Domain Question Answering Project [\[Link\]](#)

- Built a two-stage model consisting of a 'retriever' step that finds relevant documents and a 'reader' step that reads related documents and finds answers
- Constructed Dense Passage Retrieval model and Hybrid(BM25) model

[4] BTS Twitter Chatbot Project [\[Link\]](#)

- Developed a Twitter-based chatbot service for BTS fans, offering interactive Q&A and engaging chitchat experiences
- Collected Spam data and implemented Spam Filtering Model
- Implemented service using Twitter API integration and visualize the input keyword

AI/ML

NLP

SK Planet Co.,Ltd. Industry Cooperation Project

Mar 2020 - Dec 2020

[1] AR Music Note [\[Link\]](#)

- Developed an outdoor location-based AR rhythm game application for Busan One Asia Festival using AR Core

[2] Wi-Fi-based indoor location recognition app [\[Link\]](#)

- Developed an indoor location recognition app using Wi-Fi fingerprinting
- Developed customized advertisements and benefits based on the customer's real-time location

AR

IoT

HCI