JU YEON, LEE

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EDUCATION

HANYANG UNIVERSITY ERICA Campus (HYU)

Ansan, Korea

Bachelor of Computer Science and Design Technology, College of Computing

Mar. 2017

- President/mentee of KT 5G Leverage Employment & Career Mentoring, organized by Women in Science, Engineering, Technology Center (WISET), 2020
- Active mentor/member of H.E.I Mentor, International Language (Chinese) Institute Mentoring Program, HY Institute for International Education, 2019
- Active mentor/member of Favor in Your Eyes club, local government & HY Univ offices supporting youths and adolescents, 2019
- Active member of 0&1, a society for the study of algorithms, 2018
- Active member of INSIGHTING, a society for the study of socioeconomic analysis, 2017
- Active mentee/member of Mentoring Our Dreams program, HY Counseling Center, 2017

RESEARCH INTERESTS

- Big data, mining, analysis
- Natural language processing, LDA
- Computer vision, pose estimation, object detection

CLASS RELATED PROJECTS & EXPERIENCE

D.REAM (Design. Real Experience for All Mankind) ACADEMY

Seoul, Korea

HCI Lab, Yonsei University, Prof. Jinwoo Kim

Jan. - Feb. 2021

- Studied principles of experience design based on HCI/UX related theories
- Designed a service that can bring value to non-face-to-face medical services and produced prototypes
- Produced a digital healthcare app to prevent posttraumatic stress disorder caused by pet-loss using DSM-5 diagnostics, customized content according to grief cycle and mood tracking methods

AI Technology Course (computer vision track)

Seoul, Korea

National IT Industry Promotion Agency

Jul. - Aug. 2020

- Studied basic artificial intelligence
- Studied image processing with Opency and CNN, GNN, RNN algorithms
- Produced Covid-19 infectious behavior detection using hand detection, area-calculation, Opency

PUBLICATIONS & RESEARCH EXPERIENCE

Data Science Labs Seoul, Korea

Industry Crowdsourcing Research Dept., Researcher

Sep. − Dec. 2020

- Developed of seafood home meal replacement (HMR) reflecting customer needs
 - Built data crawling HMR product review data, preprocessing text data using KoNLPy
 - Analyzed customer reviews of HMR products through latent Dirichlet allocation (LDA)
- Topic modeling, emotional analysis
 - Extracted main ingredients and cooking methods for each HMR by NLP from shopping cart data
 - Performed market basket analysis (association analysis) using apriori algorithms from shopping data
- Predicted of Covid-19 hazardous areas using school population
 - Performed preprocessing and exploratory analysis of floating population data (2019-2020)
 - Analyzed map visualization changes in population movement before and after Covid-19 using floating population data
 - Predicted vulnerable areas to infection using school population data
- Developed professional counselor recommendation algorithms that reflect customer characteristics
 - Integrated and built psychological data from the Korea EAP Association

- Developed counselor recommendation algorithms suitable for clients using collaborative filtering
- Designed recommendations according to the weight of the client's information

Design Technology Research Center

Seoul, Korea Jan. – Feb. 2020

Research Dept., Undergraduate Researcher

- Hyundai Motors project (future cars, self-driving cars, UX, interior design, living lab)
 - Conducted living lab experiments as auxiliary experimenter using buck to derive an optimized vehicle layout for interior intervention considering vehicle architecture
 - Analyzed USE CASE and itemized quantification for setting ranges by combining optimal conditions for each system, such as sheets, displays and cockpits

CONFERENCES & WORKSHOPS

• Low Code workshop from Devs Speak (APAC)

Jul. 2020

- Participated as Seoul speaker
- Introduced the Low Code project using Microsoft's power platform
- Online Hands-on Workshop for Microsoft X WWCode

Jul. 2020

- Created face recognition attendance app with PowerApps
- Women's Engineering Research Workshop (WISET)

Jul. 2020

- Participated as speaker
- Introduced software major and career

SCHOLARSHIPS

• National Scholarship

Mar. 2017 - Mar. 2021

- Korea Scholarship Foundation, total \$3,340
- Families with multiple children scholarship

Mar. 2017 - Mar. 2021

- Korea Scholarship Foundation, total \$9,000
- HY Mentoring Scholarship

Mar. - Dec. 2019

- Favor In Your Eyes club, Hanyang University, total \$2,150
- Taught English and mathematics to low-income children for 1 year
- Practical Talent Scholarship

Dec. 2019

- College of Computing, Hanyang University, total \$200
- For outstanding grades and activities
- PBL Global Student Scholarship

Jun. 2017

- College of Business and Economics, Hanyang University, total \$1,600
- Participated in economic cooperation projects between China and South Korea
- Autonomous Scholarship

Jun. 2017

- College of Business and Economics, Hanyang University, total \$100
- For outstanding grades and activities

HONORS & AWARDS

• Honors for mentee for Employment & Career Mentoring

Dec. 2020

- Women in Science and Engineering, Technology (WISET)
- Awarded for excellent activities

SW Academic Conference, Software Business Group, Hanyang University

Dec. 2020

- Excellence prize
- Developed an online travel kit app for Covid-19 using AS, JS, HTML
- Industry Cluster-Problem Based Learning Competition, Hanyang University

Dec. 2019

■ Excellence prize

- Surveyed 200 drivers and pedestrians and built traffic IoT services
- SW Startup IDEA Competition, Software Business Group, Hanyang University

Sep. 2019

- Excellence prize
- Mobile door keys for increased security efficiency at shared accommodations
- Industry Cluster-Problem Based Learning Competition

Jun. 2018

- IC-PBL Center, Hanyang University
- Excellence prize
- Designed AI speakers for dementia patients using Python, JS, NLP

CERTIFICATION

Design.Real Experience for All Mankind Academy

Feb. 2021

- Korea HCI (Human Computer Interaction) Association
- Untact Digital Healthcare: Petros Post Trauma Prevention Service
- Computer Vision Education

Aug. 2020

- National IT Industry Promotion Agency
- Covid-19 behavior detection

VOLUNTEER ACTIVITIES

Global Power Platform Bootcamp from Microsoft

Feb. 2020

- Participated as Volunteer
- Taught object detection
- H.E.I-Mentoring program

Jun. 2019 - Dec. 2001

- Participated as Korean mentor
- Taught Korean to Chinese students and helped them adapt to Korea
- Mentoring program from Favor in Your Eyes club

Mar. - Dec. 2019

- Mentored English and math
- Provided educational and emotional support to children from low-income families
- Experience Instructor from HY-3D start-up

Jun. 2018

- Helped elementary school students experience AR at the Ansan community service center in Gyeonggi-do
- Used Microsoft HoloLens AR devices

ADDITIONAL, SKILLS & OTHERS

- Fluent in Korean and English
- Fluent in Python, C/C++ languages
- Advanced level in data analysis (Python, Tensorflow, Pandas, Data Preprosessing, EDA etc.)
- Intermediate level in web development (HTML, CSS, Javascript, React etc.)
- Operate technology posting blog (+94 Postings) for 2 years; C++ and AI/ML/DL, development notes
- Played classical piano for 10 years