NAHYUN KWON

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RESEARCH INTERESTS

Human-Computer Interaction, Accessibility, Computer Vision, Digital Fabrication

EDUCATION

Texas A&M University, TX, United States   Aug. 2020 - Present
PhD Student
Computer Science
Advisor: Dr. Jeeeun Kim

Ewha Womans University, South Korea   Mar. 2015 - Feb. 2020
Undergraduate Student
B.S. in Computer Science and Engineering

HONORS AND AWARDS

Ewha Future Capability Scholarship, Ewha Womans University, 2019
Dean's List, Ewha Womans University, 2018
Ewha Career Planning Scholarship, Ewha Womans University, 2018
Hanium ICT Mentoring Competition Award *for Graduation Project 'Smart Visitor Pass'*, 2018

PUBLICATION

- <u>Nahyun Kwon</u>, Yunjung Lee, and Uran Oh. (2019) AccessArt: A Touchscreen-based Online Art Gallery for People with Visual Impairments Powered by Crowds. Full Paper *In Preparation.*

- <u>Nahyun Kwon</u>, Youngji Koh, and Uran Oh. (2019) Supporting Object-level Exploration of Artworks by Touch for People with Visual Impairments. In Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). Poster Session.

- <u>Nahyun Kwon</u>, Hayoung Choi, Sangha Park, and Dongbo Min. (2018) Deep Learning Based Visitor Age-Gender Estimation and Statistics Service for Visitor Pattern Detection and Efficient Marketing Plan. Korea Software Congress. Poster Session.

RESEARCH EXPERIENCE

Human Computer Interaction Lab., Ewha Womans University   January 2019 - Present
Research Intern (Adviser: Dr. Uran Oh)   *Seoul, Korea*

· Participating projects which improves accessibility of 2D artworks for people with visual impairments
· Designed crowdsourcing task for collecting annotations of paintings through Amazon Mechanical Turk
· Developed VoiceOver compatible web application for object- and part-level verbal descriptions of paintings using HTML, CSS, JavaScript, and D3.js
· Gave poster presentation and presented demo at ASSETS'19 for 'Supporting Object-level Exploration of Artworks by Touch for People with Visual Impairments'

Data Warehousing Lab., Ewha Womans University   November 2016 - February 2018
Research Intern (Adviser: Dr. Minsoo Lee)   *Seoul, Korea*

· Participated in study group for data warehousing using MySQL

- Led personal project about scraping information of Steam games
- Learned data processing & analysis method using Python packages such as Numpy and Pandas by taking online courses of Udacity

INTERNSHIP

WISHUPON Inc. January 2018 - February 2018
Commercial Data Scraping Engineer *Seoul, Korea*

- Participated to project collecting up-to-date data of products
- Developed dynamic scraping module for commercial data
- Suggested insights for analysis of collected commercial data by extracting repetitive patterns from data
- Defined new error types of scraping system for better communication between teammates

EXTRACURRICULAR ACTIVITIES

Private Tutor October 2017 - November 2018
Taught Mathematics to 4 high school students individually
Mathematics Teaching Assistant July 2016 - February 2017
Taught Mathematics to over 60 high school students and helped them to solve difficult problems

TECHNICAL SKILLS

Advanced	Programming Language(C, Java, Python), WebDev Language(HTML, JavaScript, CSS)
	Data Warehousing/Visualization(MySQL, D3.js), Machine Learning(TensorFlow, Keras)
	Version-Control System(Git, SourceTree, Jira), OS(Windows, MacOS, Linux, Ubuntu)
Moderate	Android, Swift, JQuery
Novice	PHP