

Jane Im

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Interests

Social Computing, Computer Supported Cooperative Work (CSCW),
Human-Computer Interaction (HCI), Data Science, Intelligent and Interactive Systems

Education

Korea University

Bachelor in Business Administration
Bachelor in Computer Science and Engineering
Total GPA: 4.4/4.5, Computer Science GPA: 4.42/4.5

Seoul, South Korea
Mar. 2013 – Present

Massachusetts Institute of Technology

Undergraduate special student program (non-degree, full-time enrollment)
Total GPA: 4.8/5.0

Cambridge, MA, United States
Sept. 2016 – June. 2017

Research Experience

Haystack Group, MIT

Undergraduate research (Advisor: **Professor David R. Karger**)
(Collaborating by working remotely up to now.)

Cambridge, MA, United States
April 2017 - June 2017

- Created a novel dataset of 10,704 Request for Comments (RfC), a dispute resolution system in Wikipedia.
- Investigated how factors such as contentiousness affect the outcome of a deliberative discussion, by using classification and correlation techniques.
- Designed and implemented features into Wikum, a tool for collaboratively summarizing online discussions, to make it easier for editors to collaboratively close contentious discussions.
- Analyzed interviews with top RfC participants to find ways to overcome tensions within the RfC system.

MIT App Inventor, MIT

Undergraduate research (Advisor: **Professor Hal Abelson**)

Cambridge, MA, United States
October 2016 - May 2017

- Enabled novice programmers to create modular code in the App Inventor, by developing customized blocks within the system that can execute any functions of an imported API.
- Implemented virtual reality (VR) blocks in the App Inventor to help novice users build VR apps and presented the work in *CTE 2017*.
- Studied how novice users understand the interface of App Inventor in two workshops.

Soft Active Materials Lab, MIT

Undergraduate research (Advisor: **Professor Xuanhe Zhao**)

Cambridge, MA, United States
September 2016 - February 2017

- Developed 3D printing based soft robotic hands with stand-alone actuation and control system.
- Implemented the software interface for precise 3D printing for advanced soft materials.

Information System Security Lab, Korea University

Undergraduate research (Advisor: **Professor Junbeom Hur**)

Seoul, South Korea
January 2016 - February 2016

- Participated in building an Android app that uses machine learning on finger strokes for authentication.
- Read papers regarding machine learning and security for the project.

Awards

2017 Annual Soft Robotics Competitions 1st prize in Design

Cambridge, MA

Organized by **Harvard University**

September 2016 - February 2017

- Designed and implemented a soft robotic hand with 3D printed soft electronic circuits embedded on a soft base, which can actuate and light LEDs.
- Won 1st prize in the Design category with teammate Pelkins Ajanoh of MIT.

Big Data Analytics Competition 3rd Prize

Seoul, South Korea

Organized by **SK Telecom**

December 2014 - March 2015

- Analyzed SNS text data, GPS data, credit card spending data given by SK Telecom (largest telecommunications corporation of South Korea), using clustering, time series analysis, and sentiment analysis, to design a business strategy for the camping industry.
- Discovered two target groups to focus on and designed a new service *Family, Farm to Camp* accordingly.
- Won a cash prize of 1,000,000 KRW in a competition with 483 teams.

Publication

Jane Im, Paul Medlock-Walton, Mike Tissenbaum. App Inventor VR Editor for Computational Thinking. In *Proceedings of the Computational Thinking in Education Conference* (CTE 2017). Hong Kong. June 2017.

Scholarships

Korea University Honor Scholarships

Korea University, Seoul, South Korea

Academic Scholarships

- **Honors Scholarships** 33% of tuition covered for 2014 spring, 50% of tuition covered for 2015 fall
- **Best Honors Scholarships** tuition fully covered for 2014 fall

Computer Science Relevant Courses

Courses took at MIT

- **Human-Computer Interaction related courses** Intelligent Multimodal User Interfaces (A), User Interface Design & Implementation (A)
- **Others** EECS project advised by Professor Hal Abelson (A), EECS project advised by Professor Xuanhe Zhao (A), Fundamentals of Programming (A), Introduction to Inference (B)

Courses took at Korea University

- Calculus with Lab I (A+), Introduction to Linear Algebra (A+), Discrete Mathematics (A+), Theory of Computation (A+), Advanced Computer Programming & Lab (A+), Computer Programming I (A+), Programming Language (A+), Algorithms (A+), Data Structure (A+), Artificial Intelligence (A), Data Communications (A+), Internet Protocols (A+), Probability and Random Processes (A+), Computer Architecture (A+), Embedded Systems (A+), Operating Systems (A), Databases (A+)

Technical Skills

Languages: Python, Java, C, Matlab

Front-end: HTML, CSS, Javascript, jQuery, Bootstrap

Data Analysis: matplotlib, scikit-learn

App/Libraries: Django, RabbitMQ, Celery, Android

Databases: MySQL

OS: Windows, Linux (Ubuntu), Mac OSX

Others: G-code, Slic3r, 3D printer skills

Extracurricular activities

Korea University Disabled Association

Undergraduate volunteer

Seoul, South Korea

October 2017 - November 2017

- Investigated buildings on Korea University campus that need lifts for enhancing the mobility of disabled students.

Immanuel's Home

Undergraduate volunteer

Seongnam-si, South Korea

June 2011 - June 2016

- Planned annual picnic party events for people with Down syndrome living in Immanuel's Home, a welfare institute for the disabled.

Korea Venture Business Association

Undergraduate journalist

Seoul, South Korea

June 2014 - August 2014

- Interviewed startups of South Korea and wrote weekly articles based on them.

Korea University Pumpkin Reading Club

Undergraduate member

Seoul, South Korea

March 2014 - June 2014

- Read books from various areas including social issues and had weekly sessions of debates.
- Organized and led one session during the semester.

References

David R. Karger

Professor

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