Kayla Heo

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected May 2022**
Bachelor of Science, Information System Science Technology
Awards: Dean's Honor List **Fall 2019**

Relevant Courses: *Intro to Machine Learning, Objective-Oriented Programming & Data Structure, Design & Programming for Web, Computing Using Python, Discrete Structure, Networks I & II, Engineering Probability and Statistics*

SPECIALIZED SKILLS

Programming Languages: Java, Python, R, SQL, PHP, HTML, CSS, SCSS, LaTex
Libraries: Numpy, Pandas, Matplotlib, jQuery, Node.js, React.js, D3.js

Programs: SolidWorks, ANSYS, Autodesk, Final Cut, Excel
Operating Systems: Windows XP, Windows 7, Mac OS 9

Foreign Language: Korean

ENGINEERING EXPERIENCE

K-ICT Big Data Analysis Center Techno Valley, Pangyo, Korea **Summer 2019**
- Learned how to build big data infrastructure using R library
- Practiced text mining through programming a word cloud of vocabulary used in Shakespeare novel
- Utilized KoNLP package to develop flexible data acquisition process that identifies key words from Naver online news
- Practiced ggplot2 visualization through manipulating sample data sets

Cornell Daily Sun (Web Development Team) Cornell University **Spring 2020 - Present**
- Developed both front-end and back-end of the website using React.js
- Collaborated with the graphic designers and the editors to build the coronavirus dashboard
- Participated in multiple side projects in Daily Sun Website like Solar Flashbacks

Design Build Fly (Analysis Team) Cornell University **Fall 2019 - Present**
- Evaluated and analyzed aircraft's performance and stability using MATLAB and ANSYS
- Designed and built lightweight and strong aircraft's fuselage, landing gear
- Accommodated the challenges of the competition's payload

RELEVANT ACADEMIC PROJECTS

CS1110 Cornell University **Summer 2019**
- Learned how to utilize and apply Turtle feature, GUI Window, JSON, and CSV files
- Programmed an arcade shooting game, Space Invaders, using Python

CS2110 Cornell University **Spring 2019**
- Programmed complex application of Linked List and Heaps using Java
- Applied Dijkstra's shortest path algorithm to program an arcade coin mining game

VOLUNTEER

Code4Kids Cornell University
- Taught students at Belle Sherman Elementary School on programming and algorithmic thinking
- Guided students through programming exercises and taught them new concepts