Ha Yeon Kim

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EDUCATION

Barnard College, Columbia University | New York, NY | *B.A. Computer Science*   Fall 2019 - Spring 2024
Expected Graduation Date: May 2024
Honors: Dean's List Spring 2022

TECHNICAL SKILLS

Programming Languages: Python, C, SQL, R, React.js, Node.js, AWS, Ruby

TECHNICAL EXPERIENCES

MEDiThings | Seoul, South Korea | *Associate Research Engineer*   June – December 2024
- Conducted hardware validation through custom scripts and analyzed NIRS data using Python libraries, including pandas and numpy.
- Developed and organized clinical research protocols for the NIRS medical device
- Participated in business meetings with potential clients to present solutions and discuss collaborations

ACON 3D R&D team | Seoul, South Korea | *Software Engineering Intern*   January – April 2023
- Fixed errors for software called ABLER and managed error report database using Notion, Jira, and Github
- Developed a function that could read camera data from .skp file and apply it to the initial page
- Utilized Win32 API to make opacity controller on ABLER for users who want to overlap the image with the background image
- Added a function that can export 3D models in psd files

Barnard Programming Language Lab | New York, NY | *Summer Research Intern*   May – August 2022
- Provided procedural feedbacks and advice to peers working at the lab (8 participants for summer 2022)
- Received funding from Barnard's Summer Research Institute to support 10-weeks full time summer work
- Designed and tested a wellness tracker for homebound seniors using ESP32, INMP 441, and Arduino IDE
- Presented at the Lida Orzeck '68 Poster Session on Creative Embedded Systems for Multi-Sensory Data Engagement

INDEPENDENT STUDY

New Methods in Musical Instrument Interfacing | Professor Mark Santolucito   January – May 2022
- Repaired the hardware by soldering wires to connect boards and the tile pads to feather M4 board
- Uploaded Arduino code that assigns color and value on each button to print serial data when clicked
- Used Web Serial API and javascript to read serial data from Arduino serial monitor on Sequencer Live Coding webpage
- Technologies: C++(Arduino), Javascript, HTML, CSS

SELECTED COURSEWORKS

Selected Courseworks: Calc-based Intro to Stats, Applied Linear Regression Analysis, Intro to Database, Intro to AI, Machine Learning, NLP, Data Visualization

LANGUAGES

Korean(Fluent), Japanese(Advanced)

PERSONAL INTERESTS

Visiting art museums, Scraping random things