

Heejoo Jin

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EDUCATION

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Georgia Institute of Technology, Atlanta, Georgia, U.S. | August 2017 - December 2021
Bachelor of Science in Computer Science | GAP: 3.73 / 4.0

SKILLS

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Java, Python
Keras, PyTorch, OpenCV
HTML, CSS, SQL

PROFESSIONAL EXPERIENCE

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- DEEPNOID**, Seoul, South Korea October 2020 - December 2020
Deep Learning Research Intern
- Worked with National Cancer Center on developing a deep learning model for breast cancer pathology image classification.
 - Assisted in optimizing a U-Net model for multi-class semantic segmentation of subchondral bone cyst MR images.
 - Managed Grad-CAM implementation for model explainability and the deployment of the model via REST API using Kafka & Flask.
- Samsung Electronics**, Suwon, South Korea June 2020 - August 2020
Software Engineering Intern
- Designed a Bluetooth Low Energy (BLE) connectivity solution for Galaxy Buds Automatic Sound Switching, which allows Galaxy Buds to seamlessly switch its connection to an active audio source between multiple Galaxy mobile devices.
 - Developed a Proof of Concept Android application for BLE connectivity with Galaxy Buds, using Java & Android BLE API.
 - Created a user journey map of Samsung Notes app to tackle its weaknesses and understand the user's needs.
- WarnerMedia**, Atlanta, Georgia, U.S. January 2019 - May 2019
Quality Assurance Analyst Intern
- Debugged the performance of mobile games, apps, and console games that reached 1,000,000+ users.
 - Performed testing and documented defects in a clear and concise manner on Jira.
 - Conducted user research with children aged 8 - 12 to understand their user experience with CN Arcade app.

RESEARCH EXPERIENCE

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- Exoskeleton and Prosthetic Intelligent Controls (EPIC) Lab**, Georgia Tech May 2019 - Present
Machine Learning Undergraduate Researcher
- Develop a neural network model that estimates the user's gait phase and walking speed using a robotic hip exoskeleton.
 - Utilize electromyography sensors and Vicon motion capture system to understand the user's gait dynamics.
- Augmented Environment Lab**, Georgia Tech August 2018 - December 2018
Augmented Reality Undergraduate Researcher
- Contributed to the idea creation and Unity AR development of a mixed reality theatre performance, "The Safety Show" in collaboration with DramaTech Theatre at Georgia Tech.

PROJECTS

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- Cardiovascular Disease Classification** | Machine Learning September 2019 - December 2019
- Conducted a comparative study of various supervised learning algorithms to evaluate their accuracies and performances.
 - Used different data preprocessing techniques to optimize its performance using Scikit-learn & Keras.
- Space Trader** | Android Application Development May 2019 - July 2019
- Developed an Android application that reintroduces a classic open-source Palm Pilot game called "Space Trader."
 - Led a team of 4 members and worked in all phases of the project, including conceptualizing our own version of the game, programming in Java, testing, and creating interactive user interface design.

LEADERSHIP

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- Korean American Scientists and Engineer Association (KSEA)**, Georgia Tech January 2018 - Present
President
- Direct various networking and professional development events for Korean-American students at Georgia Tech.
 - Cooperate with other members of the Executive Board to ensure all responsibilities and expectations are being met.
 - Secure \$1,000+ funds from KSEA HQ and oversee financial management.