

Heejoo Jin

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, USA

August 2017 – Present

Bachelor of Science in Computer Science

Expected Graduation: Fall 2021

• Concentration: People & Intelligence

GPA: 3.73/4.0 | Dean's List

• Courses: Object-Oriented Programming, Data Structure & Algorithms, Artificial Intelligence, Machine Learning

Human Computer Interaction, Data Visualization, Analysis of Algorithms

Nanyang Technological University, Singapore, Singapore

January 2020 – May 2020

Computer Science Exchange Program

EXPERIENCE

Samsung Electronics, Suwon, South Korea

June 2020 – August 2020

Software Engineering Intern – Convergence Development Group

- Designed a Bluetooth Low Energy (BLE) connectivity solution for Galaxy Buds that allows automatic switching to the active audio source between multiple Galaxy mobile devices.
- Developed an Android application that measures the success of the Proof of Concept, using Java and Android BLE API.

Exoskeleton and Prosthetic Intelligent Controls Lab, Georgia Institute of Technology

May 2019 – December 2019

Machine Learning Undergraduate Researcher

- Developed a NN ML model in Python using Keras that estimates gait phase and walking speed in real-time in order to robustly provide corresponding assistance in a powered hip exoskeleton during movement.
- Conducted a comparative study on ML classification algorithms to evaluate their performances on predicting user intents on various locomotive modes as well as to monitor different data preparation techniques.
- Utilized biomechanical measurements such as IMU & EMG sensors and VICON to understand user's gait dynamics.

Warner Bros. Entertainment, Atlanta, Georgia, USA

January 2019 – May 2019

Quality Assurance Analyst Intern – Cartoon Network Digital

- Debugged and optimized 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 bug tracking database.
- Managed in-person user research with children aged 8-12 to understand their user experiences with CN Arcade app.
- Used Jira REST API, Javascript, and JQuery to build a web page that efficiently collects and organizes data from Jira.

Augmented Environment Lab, Georgia Institute of Technology

August 2018 – December 2018

AR Undergraduate Researcher

- Built an AR experience that allows users to configure theatrical scenography and enhance devised theatre process by virtually placing different properties onto a performing stage, using C#, Unity3D, and RicHo 360° camera.
- Designed socially engaged AR storytelling for theatre performance, "The Safety Show" in collaboration with DramaTech.
- Conducted user research on Viewpoints and Rasaboxes, techniques of performance art for creating movements.

PROJECTS

Breaking the curse of using small datasets and Improving performance of ConvNets | heejoojin.com/DL/CNN.html

Deep Learning Project

- Tackled the issues of using small datasets in Deep Learning (DL) development such as overfitting & generalization error.
- Implemented data augmentation, dropout, transfer learning, feature extraction, fine tuning to optimize the DL model.

Classification of Cardiovascular Disease | github.com/heejoojin/Classification-of-Cardiovascular-Disease

Machine Learning Project

- Explored 4 different supervised ML algorithms for heart disease classification to compare their accuracies.
- Used various data preprocessing techniques to optimize its performance using Python, Scikit-learn, and Keras.

Space Trader | github.com/heejoojin/SpaceTrader2340

Android Application Project

- 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, writing unit tests, and creating interactive user interface design.
- Integrated Google Firebase that saves user's in-game items & currency to allow correct purchases and sales of items.

LEADERSHIP

Korean American Scientists and Engineers Association (KSEA), Georgia Institute of Technology

President

January 2018 – Present

- Directed various professional development & networking events for Korean-American students at Georgia Tech.
- Oversaw and coordinated fundraising events that have raised \$1000+ and secured lasting relationships with sponsors.

SKILLS

Programming Languages: Java, Python, HTML, CSS, PostgreSQL

Tools: Keras, Pandas, Android Studio, Adobe Photoshop, Microsoft Office

Languages: English – Fluent, Korean – Fluent

Interests: Painting, Travel, Thriller Movies, Documentaries