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
Wireless Connectivity 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
Games Quality Assurance 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