Grace (Unnseo) Park

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EDUCATION

Carnegie Mellon University, School of Computer Science Pittsburgh, PA
Bachelor of Science in Artificial Intelligence *May 2024*
Coursework: Parallel and Sequential Data Structures and Algorithms, Intro to Machine Learning, Computational Perception, Modern Regression, Great Theoretical Ideas in Computer Science, Functional Programming

WORK / EXPERIENCE

Carnegie Mellon University | Teaching Assistant *Aug 2023 - Current*
- Lead weekly hour-long recitations with 20 students and host office hours, answer questions on online message board for 15-210: Parallel and Sequential Data Structures and Algorithms.

Data Interaction Group, CMU | Research Assistant *Jan 2023 - Current*
- Developed an evaluation model that visualizes the performance of AI-generated sepsis treatment policies.
- Experimented with transformer-based, RNN-based, and linear-regression-based dynamics models on the MIMIC-IV dataset; identified transformer-based model's superior accuracy.
- Investigating the potential to learn enhanced sepsis treatment policies from observational data by examining if the dataset is diverse enough to produce significant results.

Red Hat | Software Engineer Intern *May 2023 - Aug 2023*
- Contributed to the OpenStackSDK Manila API. Added support for the share snapshot metadata resource.

Cryptolab | Research Engineer Intern *July 2022 - Aug 2022*
- Implemented and compared the performance of various optimizer algorithms such as SGD, Adam, and Adagrad for regression models of homomorphically encrypted data.
- Improved the training speed of logistic regression models by 3.6% and achieved 95% accuracy.

PROJECTS

Anyways… | TartanHacks *Spring 2023*
- Programmed a software tool to help users stay on topic in group discussions by saying “anyways…”
- Uses real time speech-to-text technology and keyword similarity analysis using the spaCy natural language processing library. Designed an algorithm for detecting off-topic sentences using keyword similarity which achieved 90% accuracy.

CampusMap | HackCMU *Fall 2022*
- Developed a prototype Android app in Kotlin for users to find the shortest route between two locations on campus.
- Using the Google Maps API, the app measures the distance the user walks to reach the destination.

LEADERSHIP

Carnegie Mellon Univeristy | Tartan Ambassador *May 2023 - Aug 2023*
- Conducted daily hour-long in-person tours across campus for a group of to 20 visitors. Welcomed visitors and answered questions about the CMU experience.

CMU Korean Student Association | Board Member *Sept 2021 - Dec 2022*
- Planned and organized monthly events such as food sales, mentor programs, Korean Independence Day events on campus to promote Korean culture.

AI MakerSpace, CMU | Undergraduate Assistant *Sept 2021 - May 2022*
- Set up various robots such as Misty and Kinova robotic arm in the AI makerspace and prepare for opening.
- Constructed manuals and descriptions on how to use each robot and provide support for students using the resources.

Beyond Coding | Teacher *Jan 2021 - Aug 2021*
- Taught beginner to intermediate-level programming in Python to a group of 10 middle school students. Prepared for weekly 3-hour long sessions of lectures and activities. Assist students with their individual projects.

SKILLS

Python, C, SML, R, Java, LaTeX, Git, Vim, Unix, Pytorch, English (Fluent), Korean (Fluent), Spanish (Intermediate)