Danling Jiang

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EDUCATION

The Pennsylvania State University, University Park, PA Jan' 23-May' 24
- Computer Science and Engineering | Master of Science
- GPA: 3.52/4.0
- Relevant Courses: *NLP, Machine Learning*

The Pennsylvania State University, University Park, PA Aug' 18-May' 22
- Major: Computer Science | Minor: Mathematics | Bachelor of Science
- GPA: 3.58/4.0

PROJECTS

Web Projects | *HTML, CSS, JS, React* March' 24-Present

Collection of various front-end web projects in Github
- implementing design, features, and functionality for different simple web project
- Utilized HTML, CSS, JavaScript, and React to create responsive and interactive user interfaces

Data Analysis | *Python* Feb' 24-May' 24

Analysis on human-AI interaction tasks, focusing on decision-making behavior of the given Pavlovia Data
- Utilized Python for data processing, statistical analysis, and visualization
- Implemented sequential pattern mining to uncover decision-making strategies and behavioral patterns
- Interpreted findings to identify variations in decision-making strategies across participant identities and treatment conditions

Flip Card Memory Game | *Python* Oct' 23-Dec' 23

Using pygame to create a memory game that help elderly
- Utilized Pygame for graphical interface development, ensuring a user-friendly experience
- integrate features such as image loading, scaling, and display for gameplay enviroment
- implemented game mechanics, including card shuffling, selection, and matching functionality

AI-aided Robotic Siding Cleaner (Capstone Project) | *Python* Sept' 21-Dec' 21

Robotic siding cleaner that can clean sides of a single-family house
- create software that will use an image processing pipeline for feature extraction, scaling, stitching, and path planning
- python application that can detect the obstacles on the side, convert the picture of the side to a 2d matrix that can fit into path algorithm, measures the dimensions of the wall and the gaps between each obstacle by using a reference object
- Implemented a path algorithm that can take an image segmentation array of element size as the area covered by the robot

SKILLS

- Web Development: **HTML5**, **CSS3**, **Javascript,** and **React**
- Languages: **Python**; some experience with **Java**, **C**, and **C++**
- Development & Tools: **Linux**, **Github**
- Fluent in both **Mandarin** (Native) and **English**

EXPERIENCES

Grader Feb' 23-May' 23
- help professor grade homeworks and quiz for the class *Numerical Analysis II*

HONORS & CERTIFICATES

Coursera *(certificates)*
- Web Design for Everybody by *University of Michigan* — first three courses (HTML, CSS, JavaScript)
- Using Python to Access Web Data *by University of Michigan*

The Pennsylvania State University, State College, PA
- Dean's List