(Katrina) Jie Jiao

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Github: https://github.com/rabbit721

Education

Carnegie Mellon University, Pittsburgh, PA **May 2022**
Bachelor of Science in Mathematical Sciences, double major in Computer Science
GPA: 4.0/4.0

Skills

Programming Languages: Python, SML, Java, C, C#
Packages and Frameworks: Numpy, Scipy, Tensorflow, Keras **Tools:** Git, Unix, Linux;

Work Experience

Meteorological Science and Technology Center, IAP, CAS[1], Beijing, CHN **Jun 2019 – Sept 2019**
Research Intern, *Visibility Estimation based on Single Image*

- Designed a Neural network ensemble to estimate visibility distance from images
- Parsed data from meteorological sensors for analysis and preprocessed images for training
- Constructed low-level features from images for better perception of haze and illumination
- Presented progress in weekly workshops for discussion and feedback

Language Technology Institute, CMU, Pittsburgh, PA, U.S **Oct 2018 – May 2019**
Research Assistant**,** *Zoom City*

- Designed user interface and developed programs that identify geometric shapes from users' drawings on canvas as part of a children's book project
- Implemented interactions and animations in JavaScript/TypeScript and HTML5 in an Ionic Cordova app using angular

Project Experience

AI Representation and Problem Solving, CMU, Pittsburgh, PA, U.S. **Jan 2019 – May 2019**
AI Pacman

- Implement algorithms, including Q-Learning, TD-Learning, Markov Decision Process, Hidden Markov Model, Particle filtering, in Python to teach pacman (the game agent) to find optimal paths
- Program using reinforcement learning and logical planning achieved performance comparable to best human players

Game Creation Society, CMU, Pittsburgh, PA, U.S. **Sept 2018 – Jan 2019**
Overshot (Unity Game Project)

- Scripted for UI elements and created scriptable objects as assets in a Role-Playing Game

Related Coursework

* Introduction to Computer Systems, * Parallel and Sequential Data Structures and Algorithms
Principles of Functional Programming, Principles of Imperative Computation

1. IAP, CAS stands for The Institute of Atmospheric Physics, Chinese Academy of Sciences
* Course currently taking