Jeremy W. Harris

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LeetCode: https://leetcode.com/j1h7e7/

Education

University of Cambridge (Cambridge, UK): *Bachelor of Arts in Mathematics, 2022*

Experience

Independent Projects (2021-present)

- Developed a Python script as well as a Javascript web app to aid in the solving of word-guessing puzzles similar in structure to Wordle: https://github.com/j1h7e7/wordle-solvers
- Created a Python implementation of the board game 7 Wonders, and programmed manually-generated heuristics as well as machine learning strategies using muzero to attempt to create competent players: https://github.com/j1h7e7/seven-wonders

Space Sciences Laboratory, Berkeley, CA (May-Jun 2019) - *Data Analysis Intern*

- Wrote Python scripts to process and collate data from various satellites to aid in identifying compounds in interstellar dust

Lawrence Hall of Science, Berkeley, CA (2016-2018) - *Summer Volunteer & Teen Intern*

- Set up interactive exhibits that demonstrate science and engineering concepts
- Guided visitors through the exhibit experience

Skills

- Proficient in Python and JavaScript, modest experience with Bash, Java, HTML, CSS, and C++, some experience with C, C#, PHP, MATLAB, and SQL.
- Experienced with an array of Python libraries including numpy, pandas, sklearn, opencv, pygame
- Experienced with using spreadsheets for data processing and visualization.
- Math skills include differential equations, Markov chains, graph theory, discrete math, vector calculus, linear algebra, information theory, model theory, statistics, machine learning, and dynamics.

Honors and Awards

National Merit Finalist, 2019
AP Scholar With Distinction, 2018

Citizenship

Dual Citizen (United States and United Kingdom)

References on Request