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

## Objective

I'm looking for a software developer position, preferably relating to data or modeling

## Education

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

## Experience

Gantry Systems Inc. (October 2022-present) - *Machine Learning Engineer*

- Principal developer on a project to instrument existing data visibility infrastructure with a third-party data labeling solution through AWS S3
- Backend developer on a tool to automatically identify and collect data outliers and collect them in a store with user-friendly SDK access tools
- Designer and principal developer for the backend of a database to store and manage configurations and metadata associated to LLM-powered applications

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): <https://github.com/j1h7e7/wordle-solvers>
- Created a Python implementation of the board game [7 Wonders](https://en.wikipedia.org/wiki/Seven_Wonders), and programmed manually-generated heuristics as well as machine learning strategies using [muzero](https://github.com/j1h7e7/seven-wonders) 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

## Skills

- Expert in Python, proficient in JavaScript, Bash, SQL, some experience in Java, HCL, HTML, CSS, C++, C, C#, PHP, and MATLAB.
- Experienced with an array of Python libraries including NumPy, pandas, Flask, SQLAlchemy, Boto3.
- Experienced with AI and LLM-related tools including OpenAI, LangChain, Hugging Face, Label Studio
- Experienced at backend engineering topics including API design, PostgreSQL, Druid, schema design, AWS S3
- Math skills include differential equations, Markov chains, graph theory, discrete math, vector calculus, linear algebra, information theory, model theory, statistics, machine learning, and dynamics.

## Citizenship

Dual Citizen (United States and United Kingdom)