

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

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

- Designer and principal developer for the backend of a database to store and manage configurations and metadata associated with LLM-powered applications.
- Principal developer on a project to implement a new data labeling solution for our company's existing data visibility infrastructure through AWS S3 integrations, culminating in a live demo for the customer.
- Developer for language generation evaluation software, including webhooks and APIs to automatically score LLM outputs

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://www.7wonders.com/), and programmed manually-generated heuristics as well as machine learning strategies using [mujoco](https://mujoco.github.io/) to attempt to create competent players: <https://github.com/j1h7e7/seven-wonders>

Space Sciences Laboratory, Berkeley, CA (May-June 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, Rust, some experience in Java, HTML, CSS, C++, C, C#, PHP, Lua, MATLAB.
- Experienced with an array of Python libraries including NumPy, pandas, Flask, FastAPI, SQLAlchemy, Boto3.
- Experienced with AI and LLM-related tools including OpenAI, LangChain, Hugging Face, Anthropic
- Experienced at backend engineering topics including application architecture, API design, PostgreSQL, DynamoDB, Redis, Druid, S3, schema design
- Experience with infrastructure technologies including HCL Terraform, AWS, Docker, Buildkite
- Math skills include differential equations, Markov chains, graph theory, discrete math, vector calculus, linear algebra, information theory, model theory, statistics, machine learning, dynamics.

Citizenship

Dual Citizen (United States and United Kingdom)