Owen Terry

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EDUCATION

Columbia University   **September 2022 - May 2026**
Pursuing B.A. in Computer Science. 3.82 GPA. 4.03 major GPA.   *New York City, NY*

- **Technical skills**
  - Languages: C, Java, Python, JavaScript, CSS, HTML, LaTeX.
  - Packages, tools, environments: Flask, Selenium, Jupyter, NumPy, Pandas, Matplotlib, Cartopy, netCDF, version control w/Git and GitHub, bash shell scripting, C sockets API, Render, AWS S3, Unix/Linux.
  - Fundamentals: data structures & algorithms, statistics & probability.
  - Theory: mathematical proofs, linear algebra, multivariable calculus, theory of computation.
  - Current coursework: Machine Learning; Probability & Decision Theory; Computation & the Brain.
- **Leadership**
  - Effective Altruism Club co-president
    - Initiated aggressive marketing strategy to bring the club from 2-3 new members per semester over the past 2 years to 35 new members in the Fall '24 semester.
    - Run discussion groups on what it means to do good, host weekly club-wide social events, and meet twice weekly with board members to plan the future of our club.

EMPLOYMENT

Lamont-Doherty Earth Observatory of Columbia University   **May 2024 - August 2024**
Research Intern   *Palisades, NY*

- Completed a summer research project on the relationship between melting Arctic sea ice and summertime heat extremes, using Python to analyze data from cutting-edge climate model experiments.
- Contributed to a larger NSF-funded project under PI Yutian Wu. Presented research in a poster session and a paper. Planning to present at the American Geophysical Union in December in Washington, DC.

Columbia Computer Science Department   **January 2024 - Present**
CS Theory Teaching Assistant   *New York City, NY*

- Hold office hours, write answer keys, grade assignments, and host review sessions for classes of 200+ students.

Fire Aside   **December 2023 - January 2024**
Winter Intern   *San Anselmo, CA*

- Wrote Python script to find amount of CO_2 saved per day by Fire Aside's ChipperDay program. Used Google Distance Matrix API. End result: credible running-total numbers for applying for energy efficiency grants.

PERSONAL PROJECTS

- **liondine.com**, launched October 2024.
  - Shows all food available at Columbia dining halls for every meal of the day. Allows students to see what's available without having to deal with the slow, unwieldy official website.
  - Automatically scrapes data from Columbia's website with Selenium, stores it with AWS S3, then processes it in a Flask application to display relevant information on a user-friendly HTML interface.
  - ~3k queries a day, serving an undergrad student body of ~10k.
  - Continuing to add new features. Made in collaboration with one friend.
- **Simple web server**, May 2024. Written in C.
  - HTTP/1.0 server that supports GET requests. Serves static HTML and image files. Also serves dynamic contents with a page that allows users to search for entries in a database file.
- **Op-ed for The Chronicle of Higher Education.**, May 2023. "I'm a Student. You Have No Idea How Much We're Using ChatGPT."
  - Cited by the New York Times, LA Times, and various other top publications. Was the Chronicle's single most-read article of the year.
- **An Exposition on Monte Carlo Integration**, April 2023.
  - A paper that builds out the theory behind this technique and explains its utility in high dimensions.

INTERESTS

- baseball; cycling; running; yoga; the outdoors; astrophotography; philosophy; chess; social deception card games