

Aidan Banerjee

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Tufts University

(Expected May 20, 2025)

Bachelor of Science in **Computer Science** Minor in **Environmental Science and Policy** | Minor in **Mathematics**

Dean's List - **GPA: 3.7/4.0**

Professional Experience

Environment America - Summer Associate

(July 2024 - Aug. 2024)

- Conducted policy research and developed GIS models and web pages for Environment America's national clean water chapter, focusing on legislation to reduce lead in school drinking water and monitor toxic algae blooms in waterways.

The Data Intensive Studies Center - Policy and Machine Learning Research

(Jan. 2024 - June 2024)

- Researched structural dynamics, signal processing, and building physics-informed machine learning models to analyze the health of offshore wind turbines while contributing to policy and labor practices integration through agent-based modeling.
- Committed to a 10-hour weekly schedule, regular one-on-one meetings with supervisors, and group meetings.

Tufts University Computer Science- Teaching Assistant

(Sept. 2022 - Dec. 2024)

- Conducted 3-5 office hours weekly, assisting over 50 students per session in mastering C++ concepts, debugging code, and developing problem-solving skills.
- Graded and provided feedback on homework submissions weekly, and supported lab recitations for up to 30 students per week, facilitating hands-on coding exercises and group projects to reinforce lecture material.

Powerley Energy - Energy Hardware/Software Internship

(June 2023 - Aug. 2023)

- Integrated firmware controls in C/C++ with cloud services for Powerley's outage detection systems
- Developed AWS Lambda Functions for collecting and tracking energy meter data

Appian Corporation - Technology Marketing Internship

(June 2022 - Aug. 2022)

- Designed web projects and tested features on the CX team using Appian Community Edition (ACE)
- Built an interactive job board for Appian's low code for all (#lc4a) initiative

Congressman Jamie Raskin, DC Office - Summer Staff Internship

(Aug. 2020)

- Selected as a staff intern for Congressman Jamie Raskin, supporting the office in legislative and constituent services during a high-demand summer session before the 2020 election.
- Attended policy briefings and wrote memos for the Congressman and his staffers on various legislative topics, and answered constituent calls primarily assisting in the mail-in voting procedures.

Extracurriculars

Tufts Rock Climbing Team - Executive member and Team Captain

(9/4/2016 – Current)

- Serving as Captain of the Tufts Climbing Team of 150+ members, managing all team operations and events including competitions, community outreach projects, and relationship-building with gyms in the Boston area.
- Elected captain of high school climbing team for two consecutive years, leading 30+ athletes through virtual and in-person training adaptations during COVID-19, resulting in sustained team growth and performance.

Hydroelectric Power Storage - GIS Research Project

(6/2/2024 - 7/13/2024)

- Conducted GIS analysis and literature review to assess economic and technical feasibility of hydroelectric energy storage potential for New England states.
- Provided a incentive-based policy implementation plan to transition New England to a fully renewable energy system

Tufts Jumbocode WebApps - Developer & Project Manager

(Sept. 2022 - May 2023)

- Collaborated with Tufts peers to develop and deploy full-stack web applications for local non-profits, while ensuring effective communication with clients, managing user stories, and overseeing Agile-based developer sprints.

Skills

Technologies: C/C++, Python, C#, HTML, Javascript, React, Next.js, CSS, Node.js, FastAPI, MongoDB, SQL, Prisma, MATLAB, ArcGIS, Microsoft 365, LaTeX, Github