Aidan Banerjee

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Education

Johns Hopkins University | Krieger School of Arts and Sciences   Expected Aug. 20, 2026
Master of Science in Energy Policy and Climate

Tufts University | School of Engineering   Expected May 20, 2025
Bachelor of Science in Computer Science | Minors in Environmental Science and Policy & Mathematics
GPA: 3.7 / 4.0 - *Magna cum laude*

Professional Experience

Beacon Climate Innovations - *Product Design and Data Automation*   June 2025 - Current
- Onboarded 4 of 5 CEERUM clients and streamlined municipal energy data collection by 300% by developing a scalable framework, integrating REST APIs, web scraping, and data parsing, cutting setup time from weeks to days.
- Built and hosted a Next.js prototype of CEERUM 2.0, a state-level energy transition roadmap tool, to showcase upcoming platform capabilities.

Environment America - *Summer Policy Associate*   July 2024 - Aug. 2024
- Conducted policy research and developed outreach strategies for Environment America's national clean water chapter, focusing on promoting legislation to reduce lead in 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 machine learning models to analyze the health of offshore wind turbines while contributing to policy and labor practices integration through agent-based modeling.

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 leading lab recitations for up to 30 students per week.

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
- Tested features on the CX team using Appian Community Edition, and attained the Appian Developer Certification.
- Designed an interactive job board for Appian's low code for all (#lc4a) initiative

Projects Experience

Machine Learning Classifier - *Limited Labeled Data Project*   9/14/2022 - 12/20/2024
- Designing and implementing a recyclable waste management system using transfer learning and SimCLR models, currently achieving ~95% accuracy on test datasets with limited labeled data, creating scalable waste sorting solutions.

Tufts Jumbocode WebApps - *Full-Stack Developer & Project Manager*   Sept. 2022 - June 2024
- Collaborated with teams of Tufts peers to develop and deploy full-stack web applications for local non-profits.
- Ensured effective communication with multiple clients and developers, overseeing 4-5 Agile-based developer sprints per week, and managing 50+ user stories per year.

Tufts Rock Climbing Team - *Executive member and Team Captain*   Sept. 2016 – Current
- Serving as Captain of the Tufts Climbing Team of 130+ members, managing all team operations and events including competitions, community outreach projects, and relationship-building with gyms in the Boston area.
- Raised over $10,000 through fundraising initiatives to support financial aid, making climbing more accessible.

Technical Skills

Programming & Applications: Python, C/C++, Java, JavaScript, Typescript, React, SQL, Next.js, HTML/CSS, ArcGIS
Other Tools & Technologies: AWS, MongoDB, Appian, Prisma, Git, PyTorch, Jupyter Notebook, Agile Methodology