AIDAN BANERJEE

202-290-8029 | aidan.banerjee@gmail.com | linkedin.com/in/Aidan-Banerjee

Education

Johns Hopkins University | Krieger School of Arts and Sciences   August 2026
Master of Science in Energy Policy and Climate

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

Relevant Experience

Beacon Climate Innovations – *Product Development & Data Automation*   June 2025 – Current
- Expanding adoption of CEERUM (BCI's energy-transition planning software) by validating and integrating data for 8+ municipalities this summer, with plans to scale 5-fold by 2026.
- Accelerating municipal onboarding by over 300% and cutting costs by developing custom React automation tools to manage end-to-end data workflows with backend pipelines that eliminate manual data processing.
- Attracting new partners and clients by building and demoing a CEERUM 2.0 app in Next.js with dynamic dashboards, map integrations, and scenario-planning tools.

Environment America - *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.

The Data Intensive Studies Center - *Machine Learning & Policy 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.
- Co-authored forthcoming research paper, drafting findings while maintaining a 10-hour weekly commitment.

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
- Built an interactive job board for Appian's #LowCodeForAll initiative and obtained Appian Developer Certification

Congressman Jamie Raskin, DC Office - *Summer Staff Internship*   Aug. 2020
- Answering constituent calls to assist people in mail-in voting procedures and writing memos for the congressman.

Projects Experience

Machine Learning Classifier - *Limited Labeled Data Project*   Sept. 2022 – Dec. 2022
- 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 sorting solutions.

Tufts Jumbocode Web Apps - *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.

Rock Climbing Team - *Executive member and Team Captain*   Sept. 2016 – May 2025
- 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, Typescript, React, SQL, Next.js, HTML/CSS, API Development
Data Science: PyTorch, Jupyter Notebook, Machine Learning, Scikit-Learn, Signal Processing, Pandas, NumPy
Cloud Platforms & DevOps: AWS, MongoDB, Appian, Prisma, Git, Agile Methodology