

Aidan Banerjee

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Education

Tufts University: (GPA: 3.7/4.0)

(Expected May 20, 2025)

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

Relevant Coursework: *Environmental Policy, Environmental Economics, Climate Change Engineering, Engineering for a Sustainable and Resilient Society*

Work Experience

The Data Intensive Studies Center - Research Internship in Offshore Wind (1/17/2024 - Current)

- Conducting research in structural dynamics, signal processing, and physics-informed machine learning models
- Analyzing the structural health of offshore wind turbines while contributing to policy integration through agent-based modeling

Powerley Energy - Hardware/Software Internship (6/5/2023 - 8/16/2023)

- 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 - Marketing Internship (6/13/2022 - 8/12/2022)

- 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

Tufts Computer Science - Teaching Assistant (9/14/2022 - 12/21/2024)

- Work office hours shifts 3-4 times per week teaching C++
- Grade homework submissions and assist lab recitations weekly

Congressman Jamie Raskin, DC Office - Summer Staff Internship (8/1/2020 - 8/30/2020)

- Hired as a staff intern for Congressman Raskin.
 - Answered constituent calls, attended meetings, and wrote memos for the Congressman and his staffers.
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Projects & Activities

Tufts Jumbocode WebApps - Developer & Project Manager (9/14/2022 - Current)

- Developed web applications annually alongside other Tufts students for local non-profit groups in LGBTQ+ spaces
- As Project Manager, managed client communication and determined timelines and deliverables for the project

Solar Production Storage of Electricity - Env. Engineering Design Project (12-2-2022 - 12-20-2022)

- Created MATLAB programs to determine the most cost-effective and reliable ratio of solar panels to battery arrays to generate and capture electricity for a house to become reliably electricity-independent

Text Review Sentiment Classifier - Machine Learning Project (19/28/2023 - 10/20/2023)

- Built classifier for amazon and yelp reviews to determine sentiment using an SVM model and a BERT neural network preprocessor that reports on test data sets with a 96% accuracy.

Tufts Rock Climbing Team - Executive member and Team Captain (9/4/2016 – Current)

- Served on the C-Board of the Tufts Team which manages all team operations and events
- Elected captain of highschool rock climbing team 2 years in a row and led the team throughout COVID-19

Hop Shop - CFO and Manager (8/1/2017 - 6/6/2021)

- Co-founded an independent non-profit business within school grounds which provided food and other goods to students and staff. All profits were donated to charity – Donated up to \$10,000 to charities annually
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Skills

C++, Python, ArcGIS, Jupyter Notebook, HTML, Javascript, React, Next.js, CSS, Node.js, FastAPI, MongoDB, SQL, Prisma, Amazon Web Services, MATLAB Microsoft 365, LaTeX, Github, Agile Practices and Scrum Cycle,