

Brad Cao

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Education

Centennial High School, Ellicott City, Maryland

Fall 2022 – Spring 2026 (Anticipated)

GPA: 4.0 (Unweighted), 4.89 (Weighted)

Relevant AP Courses: AP Physics C (5), AP Calculus BC (5), AP Calculus AB (5), AP Macroeconomics (5), AP Microeconomics (5), AP United States History (5), AP Government and Politics (5)

University of Notre Dame, South Bend, Indiana

July 2025 – August 2025

GPA: 4.0 (Unweighted)

Selected as 1/175 from 3,000 applicants for Notre Dame Leadership Seminars, a 2-week program with full scholarship to analyze “Inequality in America” through sociological and philosophical lens.

United States Military Academy at West Point, West Point, New York

June 2025 – July 2025

GPA: 4.0 (Unweighted)

Selected as 1/1,100 students selected from 6,000 applicants for West Point Summer Leadership Experience, a two-week immersive program focused on military leadership, ethical decision-making, and team-based problem solving under high-pressure conditions.

Machine Learning and Research Experience

Research Intern at University of Maryland, Baltimore

June 2023 – Current

Developed predictive models using 10 years of FDA data to identify ADHD patients at risk of serious adverse outcomes. Led data pipeline design, built random-forest model, model optimization, and award-winning poster.

Co-founder at MyCureHope

June 2023-Current

Co-developed open source disease treatment database with 33k users in 78 countries. Built symptom-based search and data aggregation algorithms.

Policy Intern at Maryland General Assembly

June – November 2025

Advised Senator Watson on House Bill 343 of 2024, developing a comprehensive community benefit agreement for Hart-Miller Island valued at \$40 million.

Extracurriculars & Community Service

President of Centennial High School Future Business Leaders of America (FBLA)

April 2023 – Current

Led weekly meetings w/50+ members. Coached 21 students to state, 12 to nationals. Placed 5th nationally in Partnership with Business Category.

Co-Founder of We Speak On

April 2024 – Current

Organized public speaking competition with 2,000+ competitors in 32 countries. Raised \$1k+ in scholarships.

Captain of Centennial High School Debate Club

April 2023 – Current

Ranked Top 50 nationally. Elected captain (10th-present); member (9th). Coached 4 teams to qualify for Maryland State Tournament.

President of Centennial High School It's Academic Club

September 2023 –Current

Ranked 21st nationally. Led free weekly classes w/ 160 students. Organized quarterly nat'l qualifying tournaments (avg. 200+ participants). Raised \$9k+ pay tournament costs.

Awards and Honors

Top Poster Award (American Society Clinical Pharmacology & Therapeutics National Conference)

May 2025

National Champion, FBLA National Leadership Conference (Data Analysis)

July 2024

Congressional Citation Awardee

2025

1st Team USA Fencing All-American

2024

USACO Silver

2025

Publications

Cao, B., Gupta, P., Dunn, A., “*Predictive Modeling of Tacrolimus Dose Requirements and Transplantation Outcomes in Lung Transplant Recipients on Systemic Azole Antifungals.*” American Society for Clinical Pharmacology and Therapeutics Annual Meeting, Colorado Springs, Colorado, March 27-29 2024.

Cao, B., Lee S., Naga A., Gobburu J., Dunn A., “*Leveraging Supervised Machine Learning to Identify Predictors of Serious Clinical Outcome with Stimulant Treatment from Real-World Data.*” American Society for Clinical Pharmacology and Therapeutics Annual Meeting, Washington, DC, May 28 - 31, 2025.

Skills and Interests

Data Science with R, Data Structures + Algorithms, Python, Rock Climbing