

## 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 Moldering 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