

## Bradley Cao

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## Education

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

- 4.602/4.0 GPA
- Relevant Courses: Computer Vision, Artificial Intelligence, Machine Learning, Web Development
- Notable Projects: Othello AI Bot, Canny Edge Detector, OpenCV Coin Detector

### University of Maryland

College Park, MD

- 3.84/4.0 GPA
- Computer Science Major
- Relevant Courses: Computer Systems, Discrete Structures, Programming Languages, Algorithms

## Experience

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

#### HackTJ Hackathon

April 2022

- Winner of Eastbank Technologies Washington Post Challenge
- Developed Web Application allowing users to compare news articles for cross-checking factual evidence utilizing heuristics and natural language processing

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

#### Student System Administrator (Sysadmin)

June 2021 - present

- Co-Lead Sysadmin managing the school network (separate from school system network)
- Developed and maintain open source technological resources used by students and faculty on daily basis including school intranet, webmail, workstations, compute clusters, signages

### George Mason University

Fairfax, VA

#### ASSIP Summer Internship

June 2022-August 2022

- Internship under Professor Sang Nam from the Virginia Serious Games Institute
- Developed a serious game with aims to raise further awareness about geopolitics with regards to the Cold War and the Russia-Ukraine war
- Conducted study afterwards that determined an efficacy of over 80% in successfully raising public awareness through serious games

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

#### Multicast Mobile

2023

- Python based mobile application developed as tech demo for multicast off-net streaming
- Integration with automatic multicast tunnels and relays developed and hosted at TJHSST
- Part of Multicast to the Grandma (MTTG) Initiative alongside IETF
- IETF 117 presenter in support of TreeDN RFC

## Skills

### Technical:

- Fluency and experience with Python 3, Java, C#, C++, HTML, JavaScript, C, NodeJS, Django
- Linux Poweruser + Linux Systems Administration Skills
- Experienced with CD/CI pipeline and workflow, source control via Git