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## Bradley Cao

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## Education

### University of Maryland

College Park, MD

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

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

- 4.602/4.0 GPA, 1580 SAT, 36 ACT
- Relevant Courses: Computer Vision, Artificial Intelligence, Machine Learning, Web Development
- Notable Projects: Othello AI Bot, Canny Edge Detector, OpenCV Coin Detector

## Skills

**Languages:** Python, Java, C#, C++, HTML/CSS, JavaScript, C, OCaml

**DevTools:** Git, Linux, Visual Studio Code, IntelliJ, Jupyter Notebooks, Docker, Unity

**Libraries and Frameworks:** NodeJS, OpenCV, NumPy, Pandas, Matplotlib

## Experience

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

#### Student System Administrator (Sysadmin)

June 2021 - June 2023

- 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

### George Mason University

Fairfax, VA

#### Research Assistant

July 2023-August 2023

- Conducted research on applications of GPT-3.5 LLM for community driven causes such as raising awareness on climate change

## Projects

### 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
- Multicast to the Grandma (MTTG) Initiative alongside IETF MOPS and MBONED working groups
- IETF 117 [speaker](#) in support of TreeDN RFC