

## Bradley Cao

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### Education

**Georgia Institute of Technology**

Atlanta, GA

*B.S. in Computer Science | Expected graduation May 2026*

**University of Maryland**

College Park, MD

**Thomas Jefferson High School for Science and Technology**

Alexandria, VA

### Coursework

*Computer Systems | Discrete Structures | Organization of Programming Languages | Algorithms | Machine Learning | Computer Vision | Artificial Intelligence*

### Skills

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

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

**Libraries and Frameworks:** NodeJS, OpenCV, NumPy, Pandas, Matplotlib, PyTorch, Tensorflow, Flask

### 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 Unity for raising further awareness about geopolitics with regards to the Cold War and the Russia-Ukraine war

**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 by utilizing Python and fine-tuning GPT for a chatbot

### Projects

**Multicast Mobile**

- Python based mobile application developed as tech demo for multicast off-net streaming
- Utilizes FFmpeg streaming codecs and connectivity via UDP to multicast infrastructure
- IETF 117 [speaker](#) in support of TreeDN RFC proposal as part of Multicast to the Grandma (MTTG) Initiative alongside IETF MOPS and MBONED working groups

**News Comparator**

- NLP Hackathon project utilizing NLTK to semantically compare sentiments of words to determine factual similarity of sentences in online news articles as a tool against disinformation