

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