Bradley Cao

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Education

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

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**
Student System Administrator (Sysadmin) **June 2021 - June 2024**

- 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**
ASSIP Summer Internship **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

Skills

Technical:

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