

Bradley Cao

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EDUCATION

Georgia Institute of Technology

Bachelor's, Computer Science

- Cybersecurity + Intelligence Threads
- Dean's List

May 2024 - December 2026

GPA: 3.82

University of Maryland - College Park

Bachelor's, Computer Science

- Dean's List

August 2023 - May 2024

GPA: 3.87

PROFESSIONAL EXPERIENCE

Georgia Tech Research Institute

Software Engineering Intern

- Developed containerized IoT solutions hosted on Cisco IR1101 router for Air Force threat system training, reducing hardware requirements by 33% and streamlining the development and deployment, enabling rapid scalability for production of hundreds of training systems
- Engineered an embedded remote satellite-based relay control system for gas-powered generators to provide plug-and-play capabilities for Air Force range equipment globally utilizing Iridium SBD

Phoenix, AZ, USA

May 2025 - August 2025

George Mason University

Research Assistant

- Utilized Python and fine-tuning of ChatGPT 3.5 LLM to create a chatbot for addressing community questions about climate change by integrating into a website platform

Fairfax, VA, USA

July 2023 - August 2023

George Mason University

Serious Game Development Intern (ASSIP)

- Principal developer, designer, and leader of "The Cold Front", a serious game development project raising awareness on the war in Ukraine, built in Unity with C#
- Demonstrated the use cases of serious games in promoting important messages to players on the importance and relevance of global geopolitical events in everyday lives

Fairfax, VA, USA

June 2022 - August 2022

PROJECTS & OUTSIDE EXPERIENCE

Multicast Mobile

- Developed a novel technology demonstration Android mobile application for IP multicasting live streaming via automatic multicast tunneling and multicast to unicast translation as part of research in collaboration with IETF MOPS and MBONED working groups
- Spoke as an invited speaker at Internet Engineering Task Force meeting 114 in the MBONED working group.

August 2022 - July 2023

Buzzcoin Miner

- Utilized Python to crack vulnerable hash puzzles with varying degrees of difficulty based on present vulnerabilities
- Implemented Ethereum Keccak-256 hash algorithm in CUDA to work alongside single GPU CUDA script to brute force compute nonces for a Bitcoin style hashing puzzle

March 2025 - April 2025

ADDITIONAL ACHIEVEMENTS

- Placed 106th out of 12,000+ teams worldwide in IMC Prosperity 3 Trading Competition, globally ranked 1st in PnL for first round of competition
- Winner of Washington Post Challenge at HackTJ 9.0

SKILLS

Languages: Python, Java, HTML/CSS, C/C++, C#, OCaml, Rust, Bash, PowerShell, JavaScript, CUDA, Unity, Solidity

DevTools: Linux/Unix, Visual Studio, IntelliJ, Docker, Unity, Git, Ansible

Libraries/Frameworks: Arduino, Pytorch, Jupyter, NumPy, Node.js, Bootstrap, Django, Tensorflow

Collaboration: GitHub, Microsoft, Agile, Atlassian, Jira