

Catherine Meadows

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Education

George Washington University | Undergraduate

Washington, DC

B.S. IN COMPUTER SCIENCE | SCHOOL OF ENGINEERING & APPLIED SCIENCE

Expected May 2022

- Admitted to 5 Year Combined M.S. Program in Computer Science
- Relevant coursework: Operating Systems, Foundations of Computing, Systems Programming, Network Security, Networking & Distributed Systems, Computer Architecture, Database Systems, Algorithms, Discrete Structures I & II

Experience

US Navy Reserve Officer Training Corps

Washington, DC

MIDSHIPMAN

August 2018 - Present

- Managed logistics and department heads for battalion of 100 midshipmen as Battalion Executive Officer; Planned and carried out training evolutions as Assistant Operations Officer.
- Worked with University Title IX Offices and Naval Officers to establish Sexual Assault Prevention & Response training and resources for the battalion.
- Lead and engage in military and leadership training evolutions to develop physically, morally and professionally to serve as a Naval Officer.

Undergraduate Teaching Assistant

Washington, DC

GEORGE WASHINGTON UNIVERSITY

January 2020 - Present

- Teach lab sections independently and with professor and assist students during office hours for the following courses:

CSCI 2541	Database Systems	Spring 2021, Spring 2022
CSCI 2461	Computer Architecture	Fall 2020, Fall 2021
CSCI 1111	Intro to Software	Spring 2020

Research Experience

Undergraduate Research

Washington, DC

GEORGE WASHINGTON UNIVERSITY | DR. TIMOTHY WOOD'S RESEARCH GROUP

January 2020 - Present

- Wrote network functions to process client packets in containerized network flows
- Contribute to and serve as one of five Github maintainers for the high performance network function virtualization platform OpenNetVM (ONVM)
- Work on load balancing with ONVM network functions for Serverless Edge environments
- Work on using SDN and NFV to provide value based access control

Capstone Design

Washington, DC

GEORGE WASHINGTON UNIVERSITY

August 2021 - Present

- Work with a team to develop and implement "Electri" - a system for crowdsourcing images from car dashcams and autonomous vehicle imaging systems for vehicle-based AMBER alert response.
- Used AWS Lambda functions to create flow of vehicle recognition, matching, and front end display of target vehicles in AMBER Alert cases.

Conferences

ATTENDED

2021	Grace Hopper Celebration of Women in Computing	Virtual
2020	IEEE Autonomic Computing and Self-Organizing Systems Conference	Virtual
2020	Grace Hopper Celebration of Women in Computing	Virtual

Honors and Awards

2021	National Defense Industrial Association, ROTC Award	Washington, DC
2021	Summer Undergraduate Program for Engineering Research Fellowship, GWU	Washington, DC
2020	General Society of the War of 1812, ROTC Award	Washington, DC
2020	Summer Undergraduate Program for Engineering Research Fellowship, GWU	Washington, DC
2020	Dean's List (Fall 2020, Spring 2021, Fall 2022), GWU	Washington, DC