Catherine Meadows

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SKILLS

PROGRAMMING
Python • C • Java
SQL • Assembly • HTML
PHP • CSS • LaTeX

OPERATING SYSTEMS
Linux • OS X

COURSEWORK

Operating Systems
Foundations of Computing
Algorithms
Network Security
Networking & Distributed Systems
Systems Programming
Database Systems
Software Engineering
Computer Architecture
Discrete Structures I & II

PROJECTS

Web App NF Deployment | React
Mutexes & Futexes | (xv6 OS) C
Course Registration System |
MySQL, HTML, PHP
Reliable UDP Sender | Python
Encryption Module | Assembly
Search Engine (Text Files) | C
Chat Room | Java

CONFERENCES

Grace Hopper Conference | 2021
**IEEE Autonomic Computing and
Self-Organizing Systems** | 2020
Grace Hopper Conference | 2020

LINKS

Github:// **catherinemeadows**
LinkedIn:// **catherine-meadows**
Website:// **catherinemeadows**

EDUCATION

GEORGE WASHINGTON UNIVERSITY | Undergraduate
B.S. in Computer Science | Minor in Naval Science
Expected May 2022
School of Engineering and Applied Science | Washington, DC
Admitted to 5 Year Combined M.S. Program in Computer Science

EXPERIENCE

US NAVY RESERVE OFFICER TRAINING CORPS | Midshipman
August 2018 – Present | Washington, DC
- 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.

GEORGE WASHINGTON UNIVERSITY | Teaching Assistant
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

UNDERGRADUATE RESEARCH | George Washington University
January 2020 – present | Dr. Timothy Wood's Research Group
- Wrote network functions to process client packets in containerized network flows to achieve higher isolation
- 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

CAPSTONE DESIGN
August 2021 - present | Washington, DC
- 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.

AWARDS

2021	NROTC	National Defense Industrial Association Award
2021	GWU	Summer Undergraduate Program for Engineering Research
2020	NROTC	General Society of the War of 1812 Award
2020	GWU	Summer Undergraduate Program for Engineering Research