



## Emily Murphy

Computer Science Undergraduate  
CyberCorps Scholarships for Service Fellow

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### OBJECTIVE SUMMARY

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Howdy! I am currently a rising senior at Texas A&M University. I am currently seeking government-related jobs related to the field of cybersecurity for a full-time position upon my graduation in May 2022. I am currently a cybersecurity intern at the Marine Corps Systems Command as part of the DoD College Acquisition Internship Program (DCAIP).

### EXPERIENCE

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**Marine Corps Systems Command GCES PM LRF**, Quantico, Virginia May 2020 – Present  
*Cybersecurity Intern*

- Learn more in-depth about certain cybersecurity policies and guidelines (NIST SP 800-53 rev.4, CNSSI No. 1253, FIPS 199, and more)
- Learn the ATO process for military systems
- Listen and observe the administrative processes that occur for projects of the MCSC and DON

**Texas A&M Division of IT**, College Station, Texas January 2020 – April 2021  
*Security Operations Student Analyst*

- One of 10 total students selected for the inaugural Cybersecurity Apprenticeship Program (CAP) sponsored by the Division of Information Technology at Texas A&M
- Respond to threats on and off-campus and collaborate with departments to mitigate risks
- Analyze data sources such as NetFlow and authentication logs and perform event correlation in Splunk Enterprise
- Investigate alerts in AI-powered platforms including Vectra Cognito
- Diagnose email relay issues and quarantined messages using Proofpoint software

**Texas A&M High Performance Research Computing Researcher** June 2020 - September 2020  
*National Science Foundation Research Experience Undergraduate - SWEETER Project*

- One of two students to assist Dr. Dhruva Chakravorty in analyzing cyber-related statistics
- Promote cyber expertise among research universities, community colleges, minority-serving institutions, and other organizations in the southwestern United States
- Increase accessibility in data science, artificial intelligence, cloud computing, visualization, cybersecurity, and bioinformatics

**Texas A&M College of Engineering**, College Station, Texas August 2019 – December 2019  
*Peer Teacher*

- One of four teaching assistants for ENGR 102 (Intro to Programming in Python)
- Co-taught a two-hour lecture about lists and provided a demo for students
  - Became more confident in speaking in front of a big crowd
- Helped students one on one fixing bugs and explaining Python code
- Graded a range of 24 to 100+ Python files a week
  - Learned to get in the mindset of the programmer and successfully follow their thoughts when reviewing their work

**The Upper Valley Aquatic Center**, White River Junction, Vermont November 2016 – December 2019  
*Lifeguard*

- The first responder to injuries and one critical save
- Responsible for opening two pool areas
  - Tasks included turning lights on, starting waterworks, and taking temperatures of both pools
- Helped train new lifeguards and assist in lifeguard certification courses

*Swim Instructor*

- Encouraged and instructed 2-15 children ages 2 through 16 years of age in swim techniques
- Coordinated lessons according to the strengths of my swimmers

## EDUCATION

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**Texas A&M University**, College Station, Texas May 2022  
Bachelor of Computer Science (CPSC) GPA: 3.44  
Minor in Cybersecurity

**Blinn College**, Bryan, Texas August 2018 – August 2020  
Engineering Academy at Blinn (Fall 2018 - Spring 2019)  
Summer Courses (Summer 2019, Summer 2020)

**Hanover High School**, Hanover, New Hampshire June 2018  
Graduated with honors; Rank: Top 25% - TAMU assigned rank

## LEADERSHIP

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**Cybersecurity Club**, Texas A&M University April 2020 – Present  
*Officer*

- Chosen from a group of over 20 applicants to be an officer for the club
- Perform duties such as preparing presentations over the many topics of cybersecurity
- Co-lead a presentation on Open Source Intelligence
- Handle event coordination for the club
- Help in recruiting new members for the upcoming school year

**Women in Cybersecurity**, Texas A&M University April 2020 – Present  
*Vice President*

- Personally asked to be a part of making Texas A&M's Women in Cybersecurity group an official chapter of the Women in Cybersecurity organization
- Assist the President in managing the WiCyS Student Chapter
- Take on the President's duties if the President is absent
- Prepare an annual WiCyS Student Chapter report and submit through an online form provided by the WiCyS Advisory Board.
- Perform other duties as assigned by the President

**Hackathons**, Various Locations January 2019 – Present  
*Team Leader*

- Facilitate brainstorming for projects
- Delegate tasks to members who excel in particular areas
- Make sure the team is on task, while also maintaining a fun environment

**High School Swim Team**, Hanover High School November 2016 – February 2018  
*Captain*

- Organized team dinners, swim meets, and team bonding exercises
- Implement a buddy system where new team members were paired with existing members during swim meets

## ACTIVITIES

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**The Craig and Galen Brown Engineering Honors Program**, Texas A&M University Fall 2019 – Spring 2021

- Access to honors and graduate-level courses
- Attend inspirational seminars conducted by guest speakers or current faculty in the Computer Science and Engineering Department
- Access to Engineering Honors Career Fair
- **Left due to no desire to fill the requirement of undergraduate research**

**tamuCTF Development Team**, Texas A&M University January 2020 – April 2020  
*Team Member*

- Member of a group of 5-6 student developers that work to create challenges for capture-the-flag competitions
- Help create challenges for SkillsUSA Cybersecurity Competition
- Created forensic challenges that ranged from zipfiles, steganography, and the use of forensic toolkits such as FTK Imager and Autopsy

## PROJECTS

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**TAMUhack**, Texas A&M University October 25-26, 2020  
*Member of a group of 3*

- Overview: Create a simple game and teach inexperienced team member basics of Python
- Created a Legend of Korra themed Tic Tac Toe game using Pygame

**TAMUhack**, Texas A&M University

January 25 – 26, 2020

*Member of a group of 4 - Team Leader*

- Overview: Create a website that would use API's to allow passengers, that are flying to a new place, to know immediately what food and lodging are nearby
- Head web designer using React
- Incorporated Google Cloud Places API to find restaurants and lodging options near an airport

**HackRice**, Texas A&M University

September 20 – 22, 2019

*Member of a group of 4 - Team Leader*

- Overview: integration of software and hardware to monitor the engagement of locks to simulate the occupancy of a bathroom stall
- Primary Front End Developer/Web Designer using Bootstrap Studio and VSCode

**CSE Programming Contest**, Texas A&M University

Spring and Fall 2019

*Member of a group of 4 and Individual Participant*

- Completing a range of 5-20 challenges with three other team members
- Practiced leadership in tackling the challenge first or delegating parts of the solutions to certain members

**TAMUhack**, Texas A&M University

January 26 – 27, 2018

*Member of a group of 4*

- Overview: learn HTML and CSS as a team and then be able to simulate a dual-authentication process
- Created website for multi-factor authentication using HTML and CSS

## HONORS

**Grace Hopper Celebration Scholarship, Recipient**

August 2020

**CyberCorps Scholarship for Service, Recipient**

May 2020

**National Science Foundation Research Experience Undergraduate, Researcher**

June 2020 - September 2020

**National Center for Women & Information Technology (NCWIT), Honorable Mention**

August 2017

**Lyme Nichols Scholarship, Recipient**

August 2018

**Lyme Utility Club Scholarship, Recipient**

August 2018 and July 2019

**Lyme Griffith Foundation Scholarship, Recipient**

July 2019

## CERTIFICATIONS

CompTIA Cybersecurity Analyst Plus (CySA+)

March 7, 2021

Texas A&M Engineering Extension Service Digital Forensics Basics

January 2021

Splunk Fundamentals Parts 1 and 2

January 2020

ExtraHop Basic User Certification

January 2020

## SKILLS

Proficient in Microsoft Office

Proficient in Agile Software Development

Proficient in Python, C++, HTML/CSS

Satisfactory in Linux

Experience with Splunk and ExtraHop

Experience with Linux systems

Experience in Java and Javascript

Experience with Keras in Tensorflow

**General Skills:** customer service, time management, communication, self-motivation, public relations

## MEDIA

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