# Jeffrey Carr

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## EDUCATION

**University of Massachusetts Amherst** May 2021 Bachelor of Science in Computer Science Cumulative GPA: 3.5/4.0

● Scholarships: NSF Scholarship for Service fellow

● Honors/Awards: National Science Foundation CyberCorps Scholarship for Service, Commonwealth Honors College, Dean's Award

● Relevant Coursework: Introduction to Computer and Network Security, System Defense and Test, Computer Systems, Probability, Algorithms, Introduction to Computation

## SKILLS

**Languages** - Java, C, C++, Python, React, Angular

**Technology -** Nmap, Terminal, Arduino, FireEye, Symantec Bluecoat, ThreatGrid, Linux

## EXPERIENCE

Naval Information Warfare Center Atlantic, August 2021 - Current

*Scientist, Incident Response and Directive Team*

- Respond to insider threat alerts of unauthorized devices plugged into DoD machines
- Enforce directives passed in Congress among all devices and domains in NIWC
- Ensure all machines on the network are up to date on patches and updates
- Investigate malware indicators on user machines for signs of intrusion or data exfiltration

Liberty Mutual, May 2020 - August 2020

*Global Cybersecurity Solutions Intern*

- Created and published a web application in Angular aimed at streamlining threat modeling process
- Leveraged Angular and PrimeNG to craft an aesthetically pleasing and functional user interface
- Implemented a Java backend with REST API
- Product was showcased to 50 employees and deployed company wide by an application development teams

Liberty Mutual, June 2019 - August 2019

*Information Security Analyst, Security Operation Center*

- Analyzed suspicious emails for phishing and malware attacks
- Assessed retro alerts of malware coming through firewall to prevent cyber attacks on personal devices
- Investigated malware by isolating and testing code to determine malicious command and control domains
- Researched device histories to gain insight into the timeline of suspicious processes.

## PROJECTS

*Hack UMass Hackathon,* October 2018

- Built a proximity sensor with adjustable distance sensing using an Arduino with dynamic interface on a website

*Personal Projects*

- Built secure peer-to-peer chat system using RSA with 2048 bit keys and AES-256-CBC encryption in Java
- Applied a combination of Nmap, John the Ripper, Crunch, Hydra, and SamDump2 to crack passwords on vulnerable machines
- Coded program to index and rank Shakespeare plays based on queries of words utilizing both BM25 and Language-Modeling with Dirichlet smoothing algorithms, written in Java
- Coded artificial intelligence to guess votes of Congressmen in 2018 using a decision tree classification algorithm written in Python
- Recreation of unix 'dd' tool in Python
- React website with Nodejs backend to create and display recipe books stored in a Postgres-SQL database