

Casey Rock

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Career Overview

I am Casey Rock, a senior at the University of Delaware studying Computer Science with a focus on Cybersecurity. I am currently looking for a role in Cyber Security. While a student, I have been working part-time as an intern with US Army C5ISR implementing standardized ontologies for Cyber Security, Human Knowledge, and Intelligence Domains. I have completed the application for a TS/SCI clearance. In the meantime, I have been granted an Interim Secret clearance. I am seeking a full-time position upon graduation in May 2022.

Professional Development

- Developed a personal cyber range lab on a cloud computing server
- Leadership: High School Student Body President and Quarterback/Captain of the football team.
- Volunteered to teach 60 middle schoolers the basics of coding and cyber security in a virtual Camp (1 week)
- JIRA and Agile familiarity (2 years)
- Participated in a OSWAP Delaware Docker CTF
- Attends Blue Hen Toastmasters public speaking group (50 hours)
- Organized University of Delaware Data Independence club and gained approval as Registered Student Organization

Career Experience

Computer Science Intern: US Army C5ISR

March 2020 to Present 1,175 paid hours (1550 hours by graduation)

Employed as SETA Contractor via Booz Allen Hamilton

- Project Leader on the Knowledge Graphs for Learning (KGL) program. Used standard ontologies and Node JavaScript to develop and test a logically consistent and persistent model of user knowledge for warfighter adaptive instruction and Intelligence Reach.
- Created a mapping of Cyber Security Vulnerabilities and threats from the National Vulnerability Database and MITRE Attack Framework to standard ontologies.
- Lead Ontology Engineer on Data Fabric (aka Rainmaker) technology demonstrations

Developer & Project Manager: University of Delaware, Newark, DE, USA

June 2019 to February 2020 150 paid hours

- Developed a hack and defense online platform for the University of Delaware Cyber Security Program
- Maintained the scalability of the platform using tools such as Docker, Virtual Machines and Cloud Computing Resources

Cyber Security Red Team Research: University of Delaware, Newark, DE, USA

February 2019 to March 2020

- Researched Offensive Security Techniques using the tools Kali Linux, Nessus, OpenVAS
- Provided red team auditing to small businesses in Delaware

Skills, Tools, & Technologies

Programming Languages & Frameworks

- Java Script (3 yrs.), Python (3yrs), Java (2 yrs.), C (3yrs), C++(1yr), C#(6 months), React (1 yrs.), Express (3 yrs.), Unity (4 months)

Software/Platforms

- Docker (3yrs), VMware (3yrs), Digital Ocean (2yrs), Amazon Web Services (3 months), Wireshark (3 yrs.), Postgres (1yr), GraphDB (1.5 yrs.)

Operating Systems

- Unix (3 yrs.), Linux (3 yrs.), Windows (8 yrs.), Mac (2 yrs.)

Ontology Stack (1.5 years)

- OWL, SPARQL, GraphDB triple store, Protégé, Basic Formal Ontology, Common Core Ontology, Cyber Ontology, mappings to disparate Intelligence and Mission Command data sources, transformation scripts

Formal Education

Bachelor of Science in Computer Science, Expected Graduation 2022

- The University of Delaware, Major in Computer Science, Concentration in Cyber Security, GPA 3.515

Relevant Coursework:

- Computer Networks I, System Harding and Protection, Secure Software Design, Digital Forensics, Intro to Cyber Security, Data Structures

References

James Schoening - U.S. Army Futures Command, DEVCOM C5ISR Center, Computer Engineer, PMP

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Richard Wrobel - Booz Allen Hamilton, Senior Lead Technologist

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Milan Patel - U.S. Army Futures Command, DEVCOM C5ISR Center, Data Lead

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Andy Novocin – University of Delaware, Computer and Cyber Security Professor

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