

Caitlin Coffey

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Professional Summary

Cybersecurity engineer with nearly three years of experience in threat modeling, product security, automation, and cloud architecture. Specialized in identifying and mitigating security risks across complex systems, with two patents pending in threat modeling QA automation.

Experience

Capital One | McLean, VA

April 2025 - Present

Cyber Security Engineer, Product Security Engineering

- Architected and implemented SmartSuite's Threat Modeling solution, centralizing threat modeling and cyber assessment data into a unified platform to improve visibility, streamline analysis, and support cross-functional decision-making. Drove adoption through office hours, support channels, and stakeholder engagement sessions to ensure successful rollout and operationalization.
- Led the end-to-end design and implementation of the Targeted Risk Assessment MVP1 in SmartSuite, integrating critical data from FUSE and ServiceNow to improve the speed and consistency of the process across teams.

Cyber Security Engineer, Restricted Perimeter

August 2024 - April 2025

- Overhauled and modernized over 20 Restricted Perimeter cloud controls, allowing for detections and mitigations to address serverless computing resources (Lambda, ECS Fargate).
- Designed next-generation customer WAF tooling, improving the efficiency & security of the product. Presented the project to over 90 associates in the Technology Development Program.

Cyber Security Engineer, Product Security

August 2023 - August 2024

- Designed and implemented an assisted threat modeling process with automated QA checks (patents pending), reducing turnaround time by 40% and improving vulnerability detection.
- Conducted 150+ threat modeling sessions across web, mobile (iOS/Android), and enterprise applications, partnering with engineers and product owners to validate mitigation strategies.

Johns Hopkins Applied Physics Laboratory | Laurel, MD

June 2022 - August 2022

Network Security Intern, Reverse Engineering Laboratory

- **Held Secret Security Clearance** and utilized Ghidra, Wireshark, Frida, QEMU, GDB, and other reverse engineering tools to analyze embedded systems and network protocols.

Patents

- *(Pending) US App. No. 18/743,030*: Developed an innovative method for automating threat modeling quality assurance (QA) processes, enhancing the detection and mitigation of security vulnerabilities during the software development lifecycle.
- *(Pending) US App. No. 18/743,109*: Designed a framework for evaluating threat models for quality and coverage, enabling consistency in threat identification and risk mitigation.

Skills

Programming Languages: Python, JavaScript/TypeScript, SQL, HTML/CSS, Bash/Shell, C/C++

Frameworks: AWS, Agile, Docker, React, Node.js, Jenkins

Tools/Platforms: Git/GitHub, Jira, Databricks, Snowflake, Linux, SmartSuite, Splunk, Ghidra, Wireshark

Education & Certificates

AWS Certified Cloud Practitioner – Associate

Issued: Apr 2024

Georgia Institute of Technology | Atlanta, GA

September 2023 - Present

Masters of Cybersecurity, Policy Track, GPA 4.00

Olin College of Engineering | Needham, MA

August 2019 - May 2023

Bachelor of Science in Computing Security, GPA 3.98/4.00

- Recipient of a 4 year, 50% Olin Merit Scholarship