



Arielle Baine

The Evolution of Malware & Future Malware Mitigation

Malware remains a continuously evolving threat landscape. The continuous shifts in attacker's tools, techniques, and procedures used to distribute malware require businesses and organizations to ensure that processes, systems, and networks are built for resilience – the ability to prepare, respond, and recover from cyberattacks. This session will discuss the adoption of baseline assessments, cybersecurity frameworks, and kill chain frameworks used to achieve cybersecurity resilience. You will gain valuable insights on future malware mitigations from the Cybersecurity and Infrastructure Security Agency (CISA) and return home with actionable next steps to combat cyberattacks.

Biography

Arielle Baine serves as a Cybersecurity Advisor and Delaware Cyber State Coordinator in the Department of Homeland Security's Cybersecurity and Infrastructure Security Agency (CISA). Ms. Baine is a part of the Cybersecurity Advisor (CSA) Program, which directly supports CISA's mission and vision to strengthen the security, reliability, and resilience of the nation's critical infrastructure within Pennsylvania, Maryland, Virginia, and primarily Delaware.

As a CSA, Ms. Baine conducts various cyber preparedness, risk mitigation and incident response coordination activities through public and private partnerships and outreach efforts. She also serves in an advisory capacity and brings together critical infrastructure owners/operators/representatives within both public and private industry to maximize collaboration and strengthen cybersecurity and resilience.

Prior to this appointment, Ms. Baine served as a Watch Officer in a joint security and network operations center for the U.S. Food and Drug Administrator where she led the development of various tools used by the cybersecurity analyst to find more attacks, reduce false alerts, and perform faster incident response functions. She also served as a Systems Engineer, Advanced Cyber Capabilities Engineer, and Cyber Lab Director for the Hanscom Air Force Base and the 66th Air Base Group and an Information Technology Security Specialist and Lead Incident Responder for the Federal Trade Commission.

Ms. Baine has over 8 years of experience in cybersecurity spanning the federal civilian and DoD communities. She currently holds the Certified Information Systems Security Professional (CISSP) certification, the Certified Cloud Security Professional (CCSP) certification, the GIAC Certified Windows Security Administrator (GCWN) certification, the Certified Ethical Hacker (CEH) certification, and the Security+ certification. Ms. Baine is a graduate of Spelman College, University of Michigan – Ann Arbor, and hold her Masters of Science degree in Cybersecurity from the University of Maryland University College.