



ISSA
Information Systems Security Association



Monthly Meeting
October 23, 2024

Central Maryland Chapter Sponsors:
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Board of Directors

- ❖ Bill Smith, Jr., CISSP, GSNA, CEH, GPEN, GCFA, GCFE - President
- ❖ Sidney Spunt, CISSP - VP Operations
- ❖ Lorenzo Thweatt, CISSP - Secretary
- ❖ Bill Zook - VP Outreach
- ❖ Kevin Newman, CISSP - VP Education
- ❖ Seth Wilson, MBA, CISA, CISSP - Treasurer
- ❖ Stephan Chan, CISSP, PMP - VP Membership
- ❖ Phil Rogofsky, CPA, CISSP - VP Professional Development, STEM Outreach *

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VP of Professional Development

The VP of Professional Development will recommend, initiate, and oversee programs for professional development within the area of Information Security to include monthly meetings, security conferences/seminars, and interaction with peer organizations. The VP of Professional Development will work with the VP of Outreach to schedule any speakers identified by that officer during that officer's outreach duties. The VP of Professional Development will also evaluate and organize any career development events.

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Election of Officers

November 20, 2024

- ❖ President: Bill Smith, Jr.
- ❖ VP Membership: Stephan Chan
- ❖ VP Education: Kevin Newman
- ❖ VP Outreach: Bill Zook
- ❖ VP of Professional Development Note: This is a one-year term

Elections will be online from Nov 11th 9:00 AM thru Nov 18th 5:00 PM. Results will be announced at the November 20th membership meeting.

Election Chair: Renee Esposito <renee_espos@hotmail.com>

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Renew Your ISSA Membership Today!

In celebration of ISSA's 40th Anniversary we would like to say thank you for your dedication and support through the years.

**ISSA 40th Anniversary
Special Membership
Offer**



Choose Your Preference. Renew Now.

\$40 off ISSA General Membership 2 Year during October 2024*

Use Promo Code: 2YEAR-OCT2024

\$15 off ISSA General Membership 1 year during October 2024*

Use Promo Code: 1YEAR-OCT2024

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IOActive[®]

IOActive approaches security from the attacker's mindset. Whether infiltrating software, hardware, networks or human resources, our consultants uncover the weaknesses in your operations. We combine the latest security research with our time-tested techniques to provide critical security services, as penetration testing and red team services for the full stack, to meet your business goals and strengthen security resiliency.

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FULL STACK SECURITY ASSESSMENTS

SECURE DEVELOPMENT LIFECYCLE

RED TEAM AND PURPLE TEAM

ADVISORY SERVICES

TRAINING

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*G*tegrity^{Inc.}



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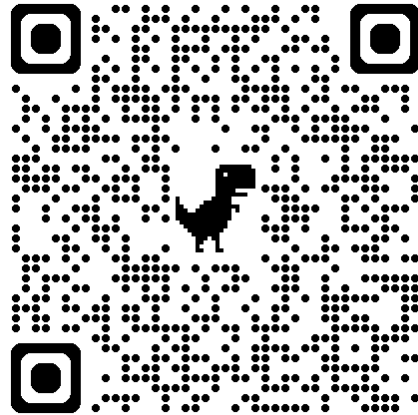


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October 18-November 17th



TENTH ANNUAL *Save the Date*
MARYLAND STEM FESTIVAL **2024**
 October 18–November 17

Celebrating 10 Years!

**The Theme is...
Engineering:
Ideas to Reality**

MarylandStemFestival.org
 f /MarylandSTEMFestival | @mdstemfest

Gold
 United Therapeutics, tenable, AstraZeneca, park, AMGEN

Silver
 bge, CAPITOL, craig newmark philanthropies, verizon

Bronze
 JOHNS HOPKINS BIOMEDICAL RESEARCH AND INNOVATION CENTER, EDU TECHNOLOGIES, ETE PHARMAS, WHITING-TURNER, LITTON HILL HEALTH, HORTONWATSON COLLEGE, MORGAN STATE, NATIONAL CRYPTOLOGICAL FOUNDATION, GOOGLE, MARY-LAND DEPARTMENT OF COMMERCE, INFOS, SAUSSEY UNIVERSITY

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Certification Continuing Education Units

Responsibility of each member to submit their CEUs

Certificate of Attendance available upon request

EC-Council

SANS

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ISSA Member Benefits

List of special offers available to members. You will need to login with your member portal credentials to access this page.

<https://www.members.issa.org/page/SpecialOffers>

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security
alliance®

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M MINDEGE

SCIPP
INTERNATIONAL
THE SECURITY AWARENESS CERTIFICATION COMPANY

COVER6
SOLUTIONS

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SECTOR
Security Education Conference

**CyberSecurity
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**PRIVACYSWAN
CONSULTING**

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CYBRARY

KnowBe4
Human error. Conquered.

RSAConference2022
San Francisco & Digital | June 6 - 9

Treadstone 71

EC-Council

lawpilots

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WISC
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CYBERJUTSU

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ISSA Special Interest Groups

<https://www.members.issa.org/general/custom.asp?page=ISSASpecialInterestGroups>

ISSA has many opportunities for members to form and participate in global initiatives and working groups. As a member, you can choose to be active in one or more of these Special Interest Groups (SIG).

Women in Security Special Interest Groups

Mission: Develop global women leaders and build a stronger community to create a compelling environment around cybersecurity and technology.

Privacy Special Interest Group (SIG)

This group is dedicated to providing privacy relevant topics to security professionals through thought leadership and a knowledge-sharing platform. The Privacy SIG will be hosting quarterly webinars and providing concise and timely privacy-related information.

Cyber Resilience Special Interest Group (SIG)

Mission: Build a global community of Cyber Resilience professionals in order to share actionable best practices to protect our organizations from cyber-attacks on high value assets.

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Free Security Training

- **Fortinet - Advanced training for security professionals, Technical training for IT professionals, and Awareness training for teleworkers:**
<https://www.fortinet.com/training/cybersecurity-professionals.html>
- **Cambridge - Software and Security Engineering:**
<https://www.cl.cam.ac.uk/teaching/1920/SWSecEng/materials.html>
- **Palo Alto Network - Free Cybersecurity Education for ALL:** <https://www.linkedin.com/pulse/free-cybersecurity-education-all-florian-buijs/>
- **6 Free Cybersecurity Training and Awareness Courses:**
<https://www.darkreading.com/threat-intelligence/6-free-cybersecurity-training-and-awareness-courses/d/d-id/1337781>
- **Cybrary Makes 500+ Hours of Premium Training Content Free to Address Cybersecurity Skills Shortage:** <https://www.cybrary.it/blog/500-hours-free-content-to-address-cybersecurity-skills-shortage/>

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GitHub - cloudcommunity/Free-Certifications: A curated list of free courses & certifications.

A curated list of free courses & certifications. Contribute to cloudcommunity/Free-Certifications development by creating an account on GitHub.

github.com

https://github.com/cloudcommunity/Free-Certifications?utm_source=tldrnewsletter

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Free AI Courses



Paul Storm on LinkedIn: #ai #digitaltransformation
#technology #future | 595 comments

Google, Harvard, and more are offering FREE AI courses (no payment required) Here are 8 FREE courses to master AI in 2024: 1. Google AI Courses
Google... | 595 comments on LinkedIn

www.linkedin.com

https://www.linkedin.com/feed/update/urn:li:activity:7191104047788032001?updateEntityUrn=urn%3Ali%3Afs_updateV2%3A%28urn%3Ali%3Aactivity%3A7191104047788032001%2CFEED_DETAIL%2CEMPTY%2CDFAULT%2Cfalse%29

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Free AI Courses

- **Microsoft - AI For Beginners Curriculum**
<https://lnkd.in/efYVSKQk>
- **OpenAI Prompt Engineering**
<https://lnkd.in/eayvTP3u>
- **ChatGPT Prompt Engineering for Developers**
<https://lnkd.in/ecbRHiPe>
- **Introduction to Artificial Intelligence**
<https://lnkd.in/eSxvScgJ>
- **What Is Generative AI?**
https://lnkd.in/eX7TPa_U
- **Using Azure OpenAI Service**
https://lnkd.in/ebs_YTSG
- **Generative AI: The Evolution of Thoughtful Online Search**
<https://lnkd.in/eKAvkN4Y>
- **Streamlining Your Work with Microsoft Bing Chat (now Copilot)**
<https://lnkd.in/eNy5bjTF>

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FREE Cyber Security Certifications/Training

- 1. [Introduction to Cybersecurity](#)
- 2. [Cybersecurity Essentials](#)
- 3. [Networking Essentials](#)
- 4. [Intro to Information Security](#)
- 5. [Network Security](#)
- 6. [NSE 1,2 & 3](#)
- 7. [Information Security](#)
- 8. [Network Security](#)
- 9. [Risk Management](#)
- 10. [Certified in Cybersecurity](#)
- 11. [CCNA Security Courses](#)
- 12. [Network Defense Essentials \(NDE\)](#)
- 13. [Ethical Hacking Essentials \(EHE\)](#)
- 14. [Digital Forensics Essentials \(DFE\)](#)
- 15. [Dark Web, Anonymity, and Cryptocurrency](#)
- 16. [Digital Forensics by Open Learn](#)
- 17. [AWS Cloud Certifications \(Cybersecurity\)](#)
- 18. [Microsoft Learn for Azure](#)
- 19. [Google Cloud Training](#)
- 20. [Android Bug Bounty Hunting: Hunt Like a Rat](#)
- 21. [Vulnerability Management](#)
- 22. [Software Security](#)
- 23. [Developing Secure Software](#)
- 24. [PortSwigger Web Hacking](#)
- 25. [RedTeaming](#)
- 26. [Splunk](#)
- 27. [Secure Software Development](#)
- 28. [Maryland Software Security](#)
- 29. [Cyber Threat Intelligence](#)

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Upcoming Summits



Summit & Training events provide an immersive training experience that arms attendees with deep-knowledge and actionable information and has a lasting impact on their careers and their organization's security programs. <https://www.sans.org/cyber-security-summit>

Event	Location	Dates
HackFest Hollywood Summit & Training	Hollywood, CA & Virtual	Summit: Oct 28-29 Training: Oct 30 – Nov 4
<u>Cyber Threat Intelligence Summit & Training</u>	Alexandria, VA & Virtual	Summit: Jan 27-28 Training: Jan 29 - Feb 3
OSINT Summit & Training	Arlington, VA & Virtual	Summit: February 24-25 Training: February 26 - March 3
Cybersecurity Leadership Summit	Free Virtual Summit	Summit: Thursday, April 24
Ransomware Summit	Free Virtual Summit	Summit: Friday, May 30
ICS Security Summit & Training 2025	Orlando, FL & Virtual	Summit: June 16-17, 2025 Training: June 18-23, 2025

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Free Training in AI courtesy of NVIDIA.

1. Generative AI Explained - • Generative AI and how it works. • Various Generative AI applications. • Challenges and opportunities in Generative AI - Link: <https://lnkd.in/gTAJ-sKa>
2. Building A Brain in 10 Minutes - • Exploring how neural networks use data to learn • Understanding the math behind a neuron - Link: <https://lnkd.in/gvVrqwZF>
3. Augment your LLM with Retrieval Augmented Generation - • Basics of Retrieval Augmented Generation • RAG retrieval process • NVIDIA AI Foundations and RAG model components - Link: <https://lnkd.in/g8hYube9>
4. AI in the Data Center - • AI use cases, Machine Learning, Deep Learning, and their workflows. • GPU architecture and its impact on AI. • Deep learning frameworks, and deployment considerations - Link: <https://lnkd.in/gvNzawxe>
5. Accelerate Data Science Workflows with Zero Code Changes - • Learn benefits of unified CPU and GPU workflows • GPU-accelerate data processing and ML without code changes • Experience faster processing times - Link: <https://lnkd.in/gRmxxVn8>
6. Mastering Recommender Systems - • Strategies from Kaggle Grandmasters on building recommendation systems for e-commerce. • Cover 2-stage models, candidate generation, feature engineering, and ensembling - Link: <https://lnkd.in/gdHTJbVS>
7. Networking Introduction - • Learn about networks and their importance. • Explore Ethernet basics and data forwarding in Ethernet networks. • Discuss network components, requirements, OSI model, TCP/IP protocol - Link: <https://lnkd.in/gqX2CJMu>
8. How to Perform Large-Scale Image Classification - • Learn large-scale image classification • Cover challenges, modeling techniques AND validation strategies. - Link: <https://lnkd.in/gWRSha8P>



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ISSA Central MD 2023 Meetings and Events

Date	Speaker	Organization	Topic
October 23, 2024	Anuja Sonalker, PhD	STEER Tech	Autonomous Vehicle Cybersecurity
November 20, 2024	Shawn Slater	Guidepoint Security	
December 18, 2024			

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November 20, 2024

Shawn Slater, Network Security Practice Lead, GuidePoint Security

Shawn Slater, Practice Lead, Network Security has been working in the fields of networking and information security since 2006. He has a strong routing and switching background with various vendor technologies from Cisco, Juniper, and others leading him to pursue increased responsibilities in the network security space. Beginning with Juniper Netscreen and Cisco ASA firewalls earlier in his career, his focus is Next Generation firewall technologies from vendors such as Palo Alto Networks. His experience on both the Enterprise and value-added resellers (VAR) sides includes countless successful deployments and migrations of multiple firewall technologies to these next generation platforms. With the growth of the Public Cloud, he focused on Amazon Web Services (AWS) and Microsoft Azure, deploying all manner of Next Generation firewalls in traditional Transit VPC/VNET and Gateway Load Balancer designs. His experience crosses internationally to all areas of industry including education and government (i.e., U.S. Department of Defense (DoD), the Federal Reserve Bank), Kimpton Hotels, and the Export Import Bank of the United States. Shawn is focused on efficiently delivering the right solution for the customer while ensuring the maintaining staff is properly trained to manage and support it.

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Anuja Sonalker, PhD

Anuja Sonalker is the founder and CEO of autonomous vehicle software company, STEER Tech and has been recognized as Automotive News' Top 100 Leading Women in the North American Automotive Industry (2020), and Distinguished Alumni of University of Maryland. Dr. Sonalker draws two decades of experience from both the automotive industry and the US cybersecurity defense sector. Most recently she was appointed to the Board of the US DOT National Center for Transportation Cybersecurity and Resiliency. Under her leadership, STEER emerged as Automotive News Best Emerging Business Model and Fast Company's honorable mention for Ideas that Change the World. Prior to STEER she held executive leadership positions at global organization Battelle where she led their automotive cybersecurity practices, go to market and successfully franchised the Battelle Cyberauto Challenge to SAE and at Parsons and Cobham PLC. She holds several chairperson positions leading global, pan-industry efforts in Automotive Cybersecurity at SAE (Society of Automotive Engineers) and ISO (International Standards Organization).

Dr. Sonalker holds a Ph.D in Electrical Engineering from the University of Maryland College Park and enjoys mentoring women and high school students in STEM in her spare time. She lives in Maryland with her husband and her two sons.

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Revving Up : Exploring Linux and Android Software in the Automotive World

Even if the most ambitious plans for Software Defined Vehicles are not realized, vehicles are becoming more software defined every year. The ability to dynamically change functionality and target hardware on vehicles will drive more advanced operating systems than those currently in wide use in automotive, like Classic AutoSAR. Many new automotive platforms will choose Linux and Android because of their popularity and broad use in many different domains. Linux and Android are widely deployed in secure systems, but what about securing them for automotive applications? This talk will briefly review how Linux and Android are currently being deployed in automotive applications. The current security advantages and limitations of automotive Linux and Android are discussed. Finally, the talk will chart a path forward on securing the application of these important operating systems for automotive systems.

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