



2026 CAE in Cybersecurity Symposium

CD Track Agenda – Parallel Sessions Only

Tuesday, April 28, 2026

For additional Symposium sessions, please see the primary agenda.
Only the primary presenter's name is displayed below. The full list of authors will be included in the conference proceedings.

ROOM:

Time	Kings Garden Two	Kings Garden Three	Kings Garden Four	Kings Garden Five	Commonwealth One
Tuesday 4/28/26 4:30-5:00 pm	<p>Session Chair: Jake Mihevc</p> <p>Bridging the experience gap: Scaling micro-internships for cybersecurity students through industry partnerships Jason Hammon Western Governors University (10 minutes)</p> <p>Lessons learned from implementing undergraduate/graduate cybersecurity certificates in AI/ML and cybersecurity Luis M Vicente Polytechnic University of Puerto Rico (20 minutes)</p>	<p>Session Chair: Ram Dantu</p> <p>Certified skills list: Translating academic performance into verifiable skills Ram Dantu University of North Texas (10 minutes)</p> <p>AI-driven cyber resilience and security for drone video analytics operations in contested environments information Prasad Calyam University of Missouri (20 minutes)</p>	<p>Session Chair: Stanley Mierzwa</p> <p>Guided AI for CTF-based cybersecurity education Deep Ramanayake Xavier University (10 minutes)</p> <p>Adversarial AI: Breaking and defending machine learning George Meghabghab Roane State Community College (20 minutes)</p>	<p>Session Chair: Diego Tibaquirá</p> <p>Closing the readiness gap: Preparing community college cybersecurity students to stand out in a crowded entry-level job market Jason Mitchell Lansing Community College (10 minutes)</p> <p>Hands-on AI red teaming: Practical techniques for uncovering vulnerabilities in generative AI systems Holly Yuan University of Wisconsin-Stout (20 minutes)</p>	<p>Session Chair: Paige Flores</p> <p>Establishing a security operations center Rob Greenberg Sam Houston State University (10 minutes)</p> <p>Building the educators who build the workforce: The CAE-CD New and Early Career Faculty Initiative Gretchen Bliss University of Colorado Colorado Springs (20 minutes)</p>

Sponsor Reception & CD Track Poster Session (Unattended)

with hors d'oeuvres and drinks provided

Tuesday 4/28/26 5:00-7:00 pm	<p>AI based dynamic threat modeling for assessing access control posture in cyber physical systems Colorado State University Indrakshi Ray Shwetha Gowdanakatte</p>	<p>Applying NIST-cased network security controls in a small healthcare clinic Nova Southeastern University - College of Computing, AI, and Cybersecurity Jose Padilla Carrasquillo Yair Levy</p>	<p>Building a privacy and security layer around LLM models to protect against common AI attacks Xavier University Samuel Kadima Kyle Totorica</p>	<p>Building a secure capture the flag platform for cybersecurity education University of Southern Maine Giovanni Braun Ashley Hayes</p>
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<p>Cybersecurity capstone project design: A simulation approach <i>Robert Morris University</i> Ping Wang</p>	<p>Designing a HIPAA-aligned information security policy program for a small dental clinic <i>Nova Southeastern University - College of Computing, AI, and Cybersecurity</i> Mauricio Bisogno Loutphi Tomas Francisco Heredia Zuluaga Yair Levy</p>	<p>Development of a digital forensics lab for incident response, criminal investigation, and host analysis training <i>West Virginia University</i> William Meredith Thomas Devine</p>	<p>Development of unified theoretical framework for zero trust enterprise network cyber security <i>Morgan State University</i> Olufemi Agunbiade Onyema Osuagwu</p>
<p>Evansdale 2050: A cybersecurity-centered cyber-physical model of a personal rapid transit system <i>West Virginia University</i> Mohamed Hefeida Cosmas Nwakanma Tucker Amon, Salem Hefeida Jordan Luzier James Sleptzoff</p>	<p>Federated learning-based anomaly detection for high-performance research networks <i>University of Nevada, Reno</i> Shamik Sengupta</p>	<p>Free and open-source security orchestration, automation, and response platform (FOSS-SOAR) <i>Xavier University</i> Aedan Podest</p>	<p>From mass extraction to ethical triage: Multi-agent AI for privacy-preserving computer forensics <i>Texas A&M University-San Antonio</i> Md Tamjid Hossain <i>Purdue University Northwest</i> Shafkat Islam</p>
<p>Gated cross-attention matcher for aligning course with relevant KUs <i>University of North Texas</i> Aashish Pandey Ram Dantu</p>	<p>HARM66+ A taxonomy for the harm-entity-aware post-AI security <i>Kent State University</i> Javed Khan Sharmila Rahman Prithula</p>	<p>Important factors in obtaining a cybersecurity job in the United States <i>Loyola University Chicago</i> Aslihan Altindal Laila Hamdan Eric Chan-Tin</p>	<p>Jericho: A cyber-physical city for teaching cyber operations <i>Cedarville University</i> Andrew Quick Alex Taylor David Moore Nathaniel Gavilan Seth Hamman</p>
<p>Modeling cloud-controlled cyber-physical system resilience using a reinforcement-learning cart-pole testbed <i>Tuskegee University</i> Imran Jahid Khan Mohammad Rahman Fan Wu</p>	<p>SECURING AI systems against data, model, and tool poisoning attacks <i>John Jay College of Criminal Justice</i> Meryem Abouali</p>	<p>Securing AI systems through AI governance and LLM red teaming <i>Capitol Technology University</i> Kellep Charles</p>	<p>Securing real-time biosignal command streaming for assistive robotics using AES-GCM <i>Morgan State University</i> Joy Williams Chukwuebuke Okwese Onyema Osuagwu</p>
<p>Securing the legacy: Aspect-oriented forward engineering of OCL constraints in Brownfield development <i>Wentworth Institute of Technology</i> Aspen Olmsted Ishi Golub</p>	<p>Semantic search for healthcare patient data using sentence transformers and ChromaDB <i>South Carolina State University</i> Nikunja Swain Janmejay Mohanty Xiaomao Liu</p>	<p>Strengthening home networks: Evaluating routers against NIST standards <i>Morgan State University</i> Toluwalogo Odumosu Oluwapemiisin Akingbola</p>	<p>The impact of scholarships and co-curriculum activities on the academic success and career prospects of cybersecurity students <i>West Virginia University</i> Katerina Goseva-Popstojanova Robin Hensel</p>
<p>The OverClock Experience HACKnet: Living and learning in the modern cybersecurity residence hall <i>Grand Canyon University</i> David Richards</p>	<p>Toward AI-driven monitoring and malware detection framework for IoT and edge systems <i>University of Nevada, Reno</i> Shamik Sengupta</p>	<p>US Coast Guard Academy (USCGA) eCTF 2026 <i>United States Coast Guard Academy</i> Tyler Bissett Phillip Kuznetsov Caden Waters Daniel Yi Mohamed Elwakil</p>	<p>Use of cyber-informed engineering for digital risk mitigation <i>University of Houston</i> Wm. Arthur Conklin</p>

Wednesday, April 29, 2026

ROOM:

Time	Kings Garden Two	Kings Garden Three	Kings Garden Four	Kings Garden Five	Commonwealth One
Wednesday 4/29/26 1:30-2:30 pm	<p>Session Chair: Indrakshi Ray</p> <p>Real-time proactive network intrusion detection via latent space optimization Kyle Wright University at Albany (20 minutes)</p> <p>Towards a unified fine-grained access control model for research computing infrastructure Indrakshi Ray Colorado State University (20 minutes)</p> <p>Building cybersecurity talent through apprenticeship: A success story from the Community College of Baltimore County and state employer Viniitha Nithianandam The Community College of Baltimore County (10 minutes)</p>	<p>Session Chair: Eman El-Sheikh</p> <p>Usability challenges to securing car key fobs from hacking Ann-Marie Horcher Northwood University (20 minutes)</p> <p>From training to talent: Collaborative approaches to cybersecurity workforce development Eman El-Sheikh University of West Florida Michael Tu Purdue University Northwest Andrew Wright Adel Elmaghraby University of Louisville (35 minutes)</p>	<p>Session Chair: Elliott Lynn</p> <p>From packet capture to copy-paste: AI in Student Submissions Stuart Denrich Stevenson University (20 minutes)</p> <p>Artificial intelligence as a core cybersecurity competency: Redefining skills for the modern cyber professional Elliott Lynn American Public University System (20 minutes)</p>	<p>Session Chair: Debasis Bhattacharya</p> <p>Metro State University Cyber Clinic: Pedagogical approaches, measured outcomes, and key insights Mousumi Munmun Metropolitan State University (20 minutes)</p> <p>Impact of GenAI in the classroom - Case study from a capstone course! Debasis Bhattacharya University of Hawaii Maui College (20 minutes)</p>	<p>Session Chair: Andrea Barrios</p> <p>Enhancing cybersecurity skills in health informatics through virtual reality-based experiential learning Andrew Kalafut Grand Valley State University (20 minutes)</p> <p>Designing a student security operations center (SOC) to strengthen cyber defense workforce readiness at a community college Andrea Barrios Coastline College (20 minutes)</p>
Wednesday 4/29/26 2:30-3:15 pm	<p>Session Chair: Alan Stines</p> <p>iEXAM: AI-driven cyber security with explainability Indrajit Ray Colorado State University (20 minutes)</p> <p>Lessons learned from building an interdisciplinary cybersecurity seminar Alan Stines Middle Georgia State University (10 minutes)</p>	<p>Session Chair: Paige Flores</p> <p>Engaging the next generation: Cybersecurity outreach for high school students at St. Mary's University Ayad Barsoum St. Mary's University (10 minutes)</p> <p>Developing the faculty pipeline: An international conversation on cybersecurity education Michael Burt, NCyTE Paige Flores, California State University San Bernardino Gretchen Bliss, University of Colorado Colorado Springs Natalie Coull Abertay University, Dundee, Scotland Phil Legg University of the West of England (35 minutes)</p>	<p>Session Chair: Stanley Mierzwa</p> <p>Can AI models assist in predicting potential red flags and identifying emerging risks in an organization? Mirco Speretta Fairfield University (20 minutes)</p> <p>Cyber-physical systems in cybersecurity education: The Capture the Smart TAG Competition (CSTC) case study Stanley Mierzwa Kean University (10 minutes)</p>	<p>Session Chair: Melanie Williamson</p> <p>Retention and engagement measurement in cyber labs with lower overhead and unique parameters Nicklaus Giacobe The Pennsylvania State University (20 minutes)</p> <p>Using threat modeling to teach introductory cybersecurity Morrow (Harry) Long Quinnipiac University (10 minutes)</p>	<p>Session Chair: George Dimitoglou</p> <p>Building a statewide cybersecurity pipeline: A replicable ecosystem model for capacity, access, and sustainability Sandra Leiterman University Arkansas Little Rock (20 minutes)</p> <p>Beyond grades: Authentic assessment in cybersecurity education Hondo Tamez Johnson County Community College (10 minutes)</p>

Break and Networking 3:15-3:30 pm

ROOM:

Time	Kings Garden Two	Kings Garden Three	Kings Garden Four	Kings Garden Five	Commonwealth One
Wednesday 4/29/26 3:30-5:00 pm	<p>Session Chair: Mary McDonald</p> <p>Beyond the classroom: Integrating a 24/7 immersive “living & learning” cyber ecosystem David Richards Grand Canyon University (10 minutes)</p> <p>The Nevada Cyber Range (NCR): A scalable platform for cybersecurity education and operations Shamik Sengupta University of Nevada, Reno (20 minutes)</p> <p>Reinventing cybersecurity awareness training using generative AI Dmitry Zhdanov Illinois State University (20 minutes)</p> <p>Bridging education and workforce: Hands-on cybersecurity with BCR CWA Mary McDonald Anne Arundel Community College (20 minutes)</p>	<p>Session Chair: Kristine Christensen</p> <p>Transforming cybersecurity education with artificial intelligence Scott Didriksen College of Western Idaho (10 minutes)</p> <p>SENTINEL: An immersive workforce model for cybersecurity and information technology talent development Anthony Lucas Wake Tech Community College (20 minutes)</p> <p>A CTF testbed for cyber-physical systems Alfa Nyandoro Regent University (20 minutes)</p> <p>Empowering rural advisors and counselors to guide students toward cybersecurity pathways Kristine Christensen Moraine Valley Community College / NCyTE (20 minutes)</p>	<p>Session Chair: Dipankar Dasgupta</p> <p>AI-2027 prediction and the future of cybersecurity education Marufu Lamidi Century College (10 minutes)</p> <p>Securing AI-integrated healthcare data: Cybersecurity, ethics, and privacy Ourania Rahman Fairleigh Dickinson University (20 minutes)</p> <p>Embedding AI enabled workflows into cybersecurity curriculum: A practical integration model Elliott Lynn American Public University System (20 minutes)</p> <p>AI for security and security of AI in cyber education Dipankar Dasgupta The University of Memphis (20 minutes)</p>	<p>Session Chair: Anthony Serapiglia</p> <p>From Capture-the-Flag to Careers: Student Clubs as Launchpads for Cybersecurity Success Suzanna Schmeelk St. John's University (20 minutes)</p> <p>Toward an academic rigor analysis for cybersecurity education Cihan Tunc University of North Texas (20 minutes)</p> <p>Converting cybersecurity classes to specifications grading Mathew Heath Van Horn Embry-Riddle Aeronautical University (20 minutes)</p> <p>CPPJ - Cybersecurity Pedagogy and Practice Journal: Origins, evolution, purpose Anthony Serapiglia Saint Vincent College (10 minutes)</p>	<p>Session Chair: Paul Wagner</p> <p>Maximizing student potential through student club activities Tahir Khan Western Illinois University (10 minutes)</p> <p>Cybersecurity curriculum at the speed of relevance: A growing national resource on CyberAI, quantum, and cyber operations Tobi West Coastline College (20 minutes)</p> <p>Passwordless authentication Enas Albataineh Florida Memorial University (20 minutes)</p> <p>Clinic-in-a-Box: AI-generated organizational profiles for scalable cybersecurity experiential learning Paul Wagner University of Arizona (20 minutes)</p>

Thursday, April 30, 2026

ROOM:

Time	Kings Garden Two	Kings Garden Three	Kings Garden Four	Kings Garden Five	Commonwealth One
Thursday 4/30/26 1:00-2:00 pm	<p>Session Chair: Elizabeth Rasnick</p> <p>From workforce training to research incubation Ulku Clark University of North Carolina Wilmington (10 minutes)</p> <p>From cyber attacks to system recovery: A resiliency-centered view of cyber-physical systems security</p>	<p>Session Chair: Laxima Niure-Kandel</p> <p>From AI principles to campus practice: Lessons from implementing a knowledge-centered AI governance Olumide Malomo Virginia State University (20 minutes)</p> <p>Cheating or learning? Understanding AI misconceptions in the</p>	<p>Session Chair: Jesse Hairston</p> <p>Beyond the textbook: Growing defenders in a student security operations center Michael Ramage Murray State University (10 minutes)</p> <p>Development of a self-hosted cyber range to teach and assess cybersecurity competencies Douglas Rausch</p>	<p>Session Chair: Wm. Arthur Conklin</p> <p>Human-centric defense-in-depth framework: Restoring human agency in modern AI-augmented cyber defense strategies Petter Lovaas Niagara University (20 minutes)</p> <p>Digital risk mitigation for engineering majors Wm. Arthur Conklin</p>	<p>Session Chair: Mary McDonald</p> <p>Using AI tools to build cybersecurity curriculum and create instructional tools Mary McDonald Anne Arundel Community College (10 minutes)</p> <p>Cyber range proficiency and rigor assessment: an automated framework with LLM-enhanced psychometric validation</p>

	<p>Indrajit Ray Colorado State University (20 minutes)</p> <p>Leveraging CISA and CIS resources to design cyber resilience exercises for critical infrastructure education and training Elizabeth Rasnick University of West Florida (20 minutes)</p>	<p>community college classroom Shade Adeleke Prince George's Community College (10 minutes)</p>	<p>Bellevue University (20 minutes)</p> <p>Responsible intelligence: Designing a career and ethics-focused AI & ML curriculum for high school students Jesse Hairston University of Alabama in Huntsville (20 minutes)</p>	<p>University of Houston (20 minutes)</p>	<p>Elijah Goodrich University of North Texas (20 minutes)</p> <p>An interactive visualization platform for training cybersecurity analysts to detect subtle concurrency bugs in Rust Young Lee Texas A&M University-San Antonio (20 minutes)</p>
<p>Thursday 4/30/26 2:00-3:15 pm</p>	<p>Session Chair: Denise Kinsey-Bergstrom</p> <p>Pioneering opportunities: Partnering computer science and autonomous equipment technician programs John Geiman Western Dakota Technical College (20 minutes)</p> <p>Research and development priorities for the Maritime Transportation System Cybersecurity Ulku Clark University of North Carolina Wilmington (20 minutes)</p> <p>Community partnerships in the classroom Denise Kinsey-Bergstrom Franklin University (20 minutes)</p>	<p>Session Chair: Andrew Kalafut</p> <p>Using locally installed LLMs to support ethical hacking and cybersecurity exploration in a controlled environment Kevin Lann-Teubner Butler Community College (10 minutes)</p> <p>Hands-on high school cybersecurity education through university partnerships Andrew Kalafut Grand Valley State University (20 minutes)</p>	<p>Session Chair: Stu Steiner</p> <p>Revisiting community Wi-Fi security through research replication: An undergraduate capstone pedagogy Jason Zeller Fort Hays State University (20 minutes)</p> <p>Robust network anomaly detection via self-attentive latent modeling Zhongmei Yao University of Dayton (20 minutes)</p> <p>Toward experiential security and privacy training program for AI practitioners Mohammed Abuhamad Loyola University Chicago (10 minutes)</p> <p>Teaching cybersecurity policy through cyber policy competitions: a novel approach for technical undergraduate programs Stu Steiner Eastern Washington University (10 minutes)</p>	<p>Session Chair: Eric Burnett</p> <p>Adversarial thinking as an emerging professional disposition beyond computational thinking in cybersecurity education Christian Servin El Paso Community College (20 minutes)</p> <p>Why "Applied cyber defense" looks different at community colleges — And why that matters to CAE-CD Kevin Rickard Moopark College (20 minutes)</p> <p>Building an AI-Cybersecurity ecosystem: CEROC's integrated approach to curriculum, experiential learning, and research Eric Brown Tennessee Tech University / CEROC (20 minutes)</p>	<p>Session Chair: Gretchen Bliss</p> <p>Enabling realistic network attacks and defenses using a networked cyber range deployed on a single host Junjie Zhang Wright State University (20 minutes)</p> <p>From 'What can I do in cyber?' to 'Where do I go from here?': Igniting interest with try cyber micro-challenges Paige Flores California State University San Bernardino (20 minutes)</p>

Break and Networking 3:15-3:30 pm

ROOM:					
Time	Kings Garden Two	Kings Garden Three	Kings Garden Four	Kings Garden Five	Commonwealth One
Thursday 4/30/26 3:30-5:00 pm	<p>Session Chair: Andrea Barrios</p> <p>Best practices in the development of a robust program to cultivate the next generation of leaders in cyber and national security Ehren Hill Virginia Tech Hume Center for National Security (20 minutes)</p> <p>Lessons from a persistent student-led cyber clinic at UNLV Yoohwan Kim University of Nevada, Las Vegas (20 minutes)</p>	<p>Session Chair: Kristine Christensen</p> <p>The digital clean-up challenge Suzanne Mello-Stark Rhode Island College (20 minutes)</p> <p>Beyond the bio-lock: A behavior-based authentication system Goutham Reddy Alavalapati University of Illinois (20 minutes)</p> <p>Here are the missing masses: Centering the home in cyber-education and policy Toluwalogo Odumosu Morgan State University (10 minutes)</p> <p>Integrating security & mental health intersection topics in cybersecurity education: A preliminary study Ankur Chattopadhyay Northern Kentucky University (10 minutes)</p>	<p>Session Chair: Ram Dantu</p> <p>Skills in the workforce: Developing a match between certificates and work roles using large language models Alexis Blackwell University of North Texas (10 minutes)</p> <p>Aligning governance, risk and compliance curriculum with government and industry workforce practitioner needs for employment Sandra Blanke University of Dallas (20 minutes)</p> <p>Scaling student engagement in cybersecurity clubs and competitions Leslie Corbo Utica University (10 minutes)</p> <p>Rethinking student assessment in the era of artificial intelligence Tahir Khan Western Illinois University (10 minutes)</p> <p>Competency in credentials: Analyzing proficiency in certificates using large language models Alexis Blackwell University of North Texas (20 minutes)</p>	<p>Session Chair: Petter Lovaas</p> <p>The experiences of women and girls at the NCAE Cyber Games and cybersecurity identity Jake Mihevc Mohawk Valley Community College (20 minutes)</p> <p>Evaluating the impact of cybersecurity certifications on workforce readiness Waleed Farag Indiana University of Pennsylvania (20 minutes)</p> <p>Expanding and improving cyber defense education using private cloud and nested virtualization: a case study in network security Petter Lovaas Niagara University (20 minutes)</p> <p>Volunteering as applied cybersecurity education Christopher Kadlec Georgia Southern University (10 minutes)</p>	<p>Session Chair: Morgan Zantua</p> <p>Designing robust systems: Secure and defensive programming in Rust Christian Servin El Paso Community College (20 minutes)</p> <p>Large Language Model (LLM)-based Intrusion Detection Systems (IDS):A SOC-focused hybrid architecture and application Yuksel Celik University at Albany (20 minutes)</p> <p>Developing a CAE Cyber AI-aligned program across multiple entry pathways at a Hispanic-Serving Institution Timothy Henry Rhode Island College (20 minutes)</p> <p>Building a sustainable cybersecurity teacher pipeline Jenny Ju City University of Seattle (10 minutes)</p>