

Launching a new CAE Faculty Collaboration:

CAE-CD Community of Practice on Competitions

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CalPoly Pomona Evidencing Competency Work Group



Annual Report Data on Competitions



1 2 3	event	<pre>(s:School)-[p:PARTICIPATED]-(e:Event) WITH e.name as _name,count(p) as schools RETURN event_name, schools BY schools DESC</pre>	☆	₾
Table		event_name	schools	5
A Text	1	"National Cyber League"	184	
	2	"Collegiate Cyber Defense Competition"	105	
	3	"NCAE Cyber Games"	76	
	4	"NSA Codebreaker"	65	
	5	"Department of Energy CyberForce"	56	
	6	"Hack-the-port by MISI"	36	
	7	"Collegiate Penetration Testing Competition"	34	
	8	"Hivestorm"	20	



2022/2023 Meet your Competition Events

Western Region Collegiate Cyber Defense Competition (CCDC)

National Cyber League (NCL)

NCAE Cyber Games

Collegiate Penetration Testing Competition (CPTC)

Midwest Collegiate Cyber Defense Competition (CCDC)

Department of Energy Cyberforce

Hackthebox



2023/2024 Invite List for Meet your Competition Events National CCDC

Hivestorm

Hack the Hospital by MISI

US Cyber Games

PICO CTF

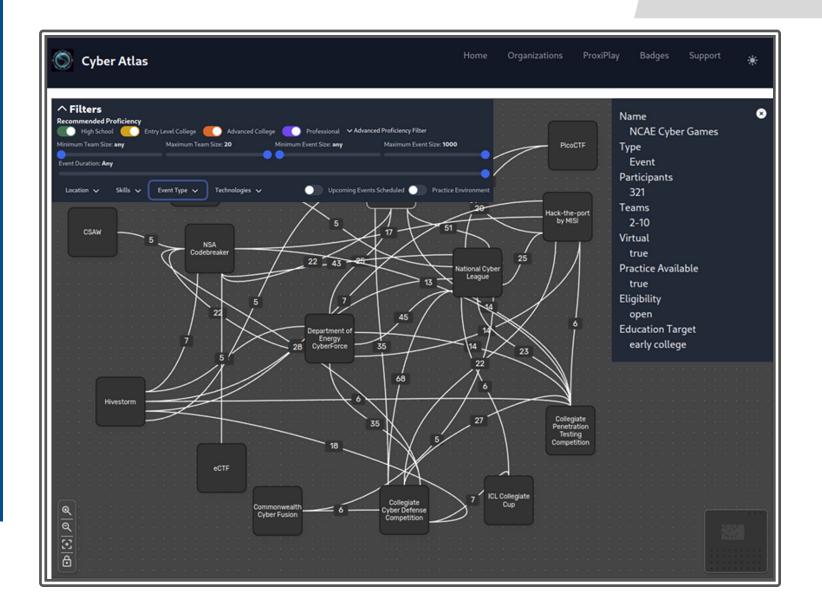
Wicked 6

CyberBit Collegiate Cup



Other Projects:

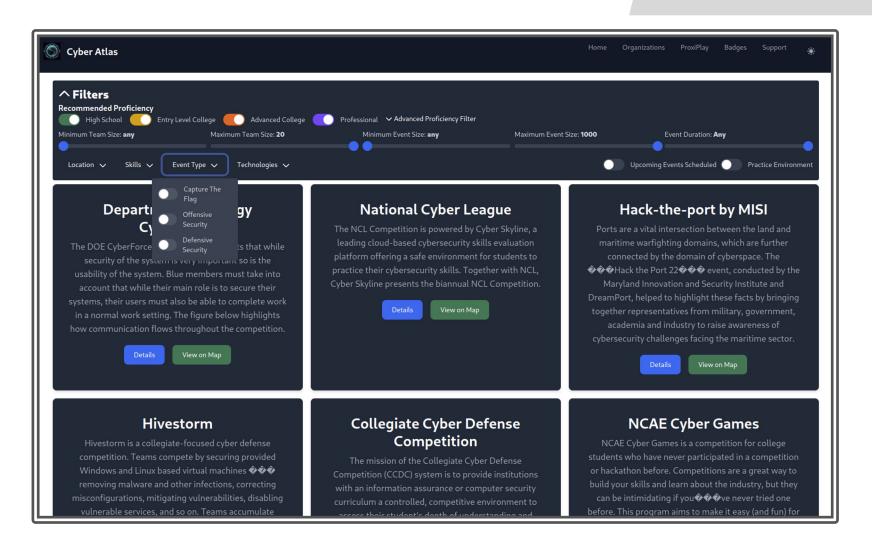
CAE Competition Map





Other Projects:

CAE Competition Map



Existing Criteria/Filters:



Other Projects:

CAE Competition Map

- virtual/in-person
- location
- competition type (CTF, Red vs. Blue, Forensics)
- skill domains
 - o cloud
 - o sysadmin
 - binary exploitation
 - o cryptography
 - embedded systems
 - physical challenges
 - incident response
 - reporting and writing
- proficiency-level
- team size
- event size
- has scheduled upcoming event
- has practice environment
- event duration
- operating systems



Other Projects:

Evidencing Competencie s

Evidencing Competency

- Developing Objectives, Measuring Outcomes
- ABCDE
- A Audience/Actor: 1st year student or 4th year, comp sci or IST, etc
- B Behavior: Tasks taken directly from a standard such as NICE
- C Condition/Context: Scenario, environment, "Given x computers", networks, included <u>faults</u>, aid of reference?, etc.
- D Degree: % correct, time frame
- E Effectiveness: Is it a viable solution, best practices
- Note Some items, only define once make objectives easier to write.





Sandbox

Red Team

CTF

Competency Statements?

Align with existing frameworks:

CAE KU'S NIST NICE DoD DCWF Badging?

Student journey and narrative from contested environment in a competition to the Workforce.



We are tying technical data to ABCDE Competency to Badging while aligning with existing frameworks.... how are we doing?!

What Competencies should we target for a pilot?





