

Mapping the Competitions Landscape for the CAE Community

Jake Mihevc - NCAE Cyber Competition PI Sean Radigan - NCAE Technical Director Dan Manson- Evidencing Competency Work Group Contact us here!





Phase I: Gather highlevel data



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>	ជ	ᅶ
Table		event_name	school	S
A	1	"National Cyber League"	184	
∑_ Code	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	

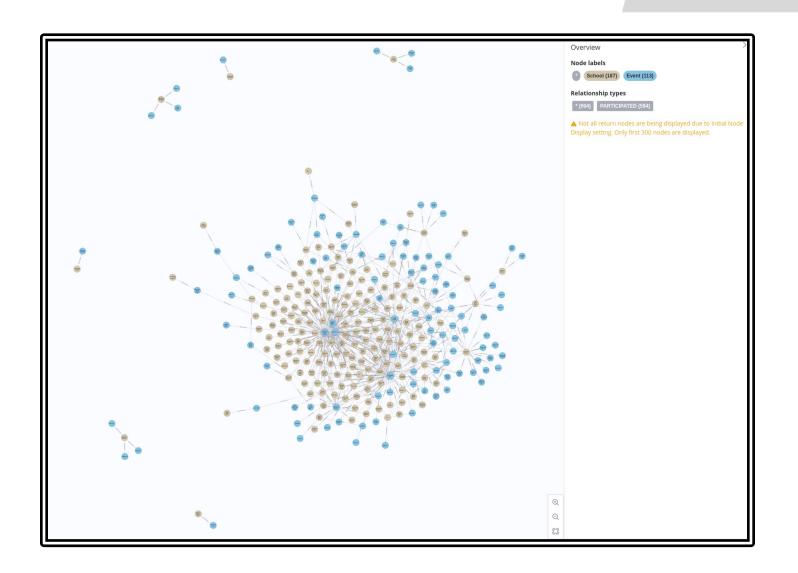
Phase I: Gather highlevel data



	event_name	schools	related_event
1	"National Cyber League"	68	"Collegiate Cyber Defense Competition"
2	"Collegiate Cyber Defense Competition"	68	"National Cyber League"
3	"National Cyber League"	51	"NCAE Cyber Games"
4	"NCAE Cyber Games"	51	"National Cyber League"
5	"Department of Energy CyberForce"	45	"National Cyber League"
6	"National Cyber League"	45	"Department of Energy CyberForce"
7	"NSA Codebreaker"	43	"National Cyber League"
8	"National Cyber League"	43	"NSA Codebreaker"
9	"NCAE Cyber Games"	35	"Collegiate Cyber Defense Competition"
10	"Department of Energy CyberForce"	35	"Collegiate Cyber Defense Competition"

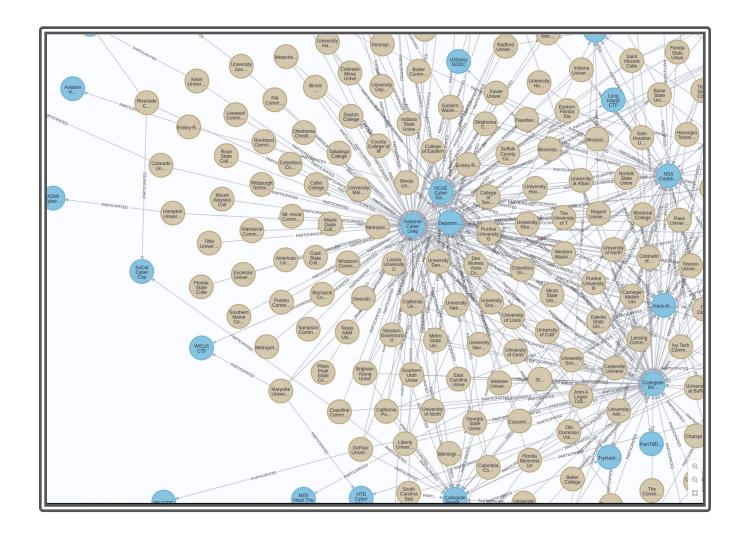


Phase II: Prototype Visualizations



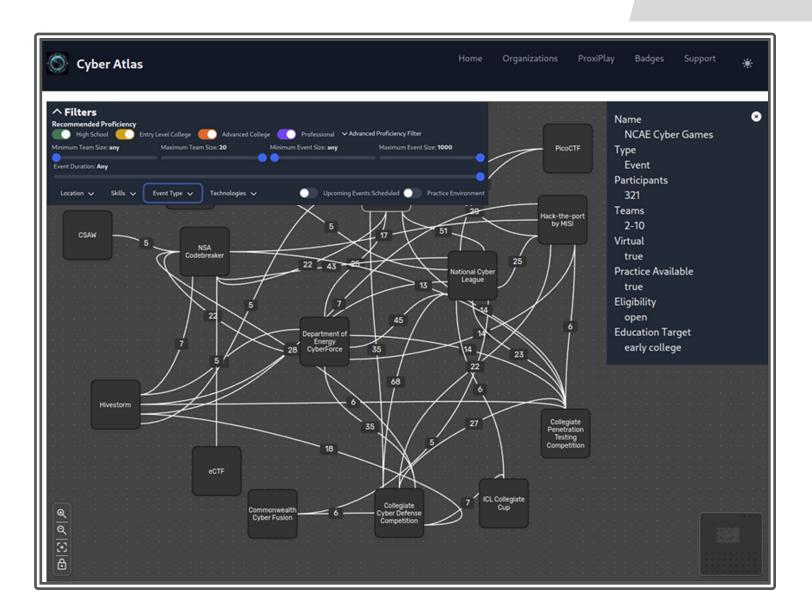


Relationships



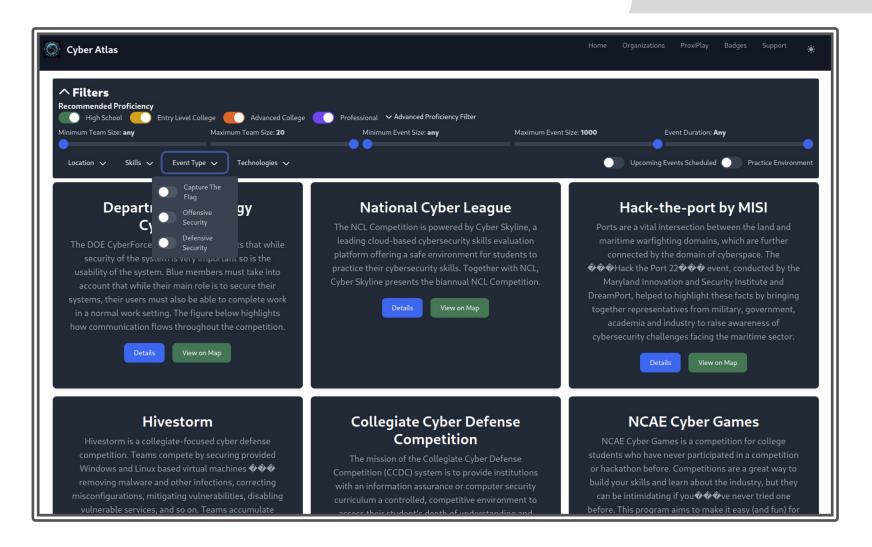


Relationships through filters





Individual Competition pages



Existing Criteria/Filters:



Phase III:TODAY!

Gather Feedback on Prototype and Enhance/ complete our Filter List

- 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





Phase IV:

Incorporate Student Experience Data

Serves as a self-updating mechanism

Direct feedback from student-to-student in their own language

Validate participation through competition organizers

