NCL Spring 2024 Team Game Scouting Report

Dear Paul Badu Yakubu (Team "Group 4"),

Thank you for participating in the National Cyber League (NCL) Spring 2024 Season! Our goal is to prepare the next generation of cybersecurity professionals, and your participation is helping achieve that goal.

The NCL was founded in May 2011 to provide an ongoing virtual training ground for collegiate students to develop, practice, and validate their cybersecurity skills in preparation for further learning, industry certifications, and career readiness. The NCL scenario-based challenges were designed around performance-based exam objectives of CompTIA certifications and are aligned to the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework published by the National Institute of Standards and Technology (NIST).

As you look to a future career in cybersecurity, we hope you find this report to be valuable in both validating skills and identifying areas for improvement across the nine NCL skills categories. You can use this NCL Scouting Report to:

- Validate your skills to employers in any job application or professional portfolio;
- Show case your achievements and strengths by including the Score Card view of your performance as part of your résumé or simply sharing the validation link so that others may view the detailed version of this report.

The NCL Spring 2024 Season had 8,020 students/players and 584 faculty/coaches from more than 480 two- and four-year schools & 240 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from April 5 through April 7. The Team Game CTF event took place from April 19 through April 21. The games were conducted in real-time for students across the country. You were in the Experienced Students Bracket, consisting of students enrolled in advanced degrees or hold extensive industry working experience.

NCL is powered by Cyber Skyline's cloud-based skills evaluation platform. Cyber Skyline hosted the scenario-driven cybersecurity challenges for players to compete and track their progress in real-time.



To validate this report, please access: cyberskyline.com/report/3F0C8D0LV87X

Congratulations for your participation in the NCL Spring 2024 Team Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

Dr. David Zeichick NCL Commissioner



EXPERIENCED
STUDENTS RANK
185TH PLACE
OUT OF 386
PERCENTILE

53RD

NATIONAL CYBER LEAGUE SCORE CARD

NCL SPRING 2024 TEAM GAME

YOUR TOP CATEGORIES

OPEN SOURCE INTELLIGENCE 61ST PERCENTILE

CRYPTOGRAPHY
53RD PERCENTILE



Average: 74.5%

cyberskyline.com/report ID: 3F0C8D0LV87X



NCL Spring 2024 Team Game

The NCL Team Game is designed for student players nationwide to compete in realtime in the categories listed below. The Team Game promotes camaraderie and evaluates the collective technical cybersecurity skills of the team members.



370 POINTS OUT OF 3000 PERFORMANCE SCORE





53rd Experienced Students Percentile

security measures in online services.

Average: 1821.5 Points

Average: 74.5%

Average: 64.2%

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Cryptography	65 POINTS OUT OF 345	62.5% ACCURACY	COMPLETION:	45.5%
Identify techniques used to encrypt or extract the plaintext.				
Enumeration & Exploita	ation O POINTS OUT OF 3000	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnera security measures in code and compile	* *			
Forensics	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques investigate digital evidence in a compu	to analyze, process, recover, and/or			
Log Analysis	O POINTS OUT OF 415	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques operation and identify malicious activit	to establish a baseline for normal			
Network Traffic Analys	is O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify malicious and benign network potential security breaches.				
Open Source Intelligen	ce 305 Point 305 225	TS 55.0% ACCURACY	COMPLETION:	91.7%
Utilize publicly available information su social media, and more to gain in-depth				
Password Cracking	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify types of password hashes and determine plaintext passwords.				
Scanning & Reconnais	sance O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify and use the proper tools to gain services and potential vulnerabilities.	n intelligence about a target includir			
Web Application Exploi	itation O POINTS OUT OF 315	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnera	abilities and use them to bypass the			

Note: Survey module (100 points) was excluded from this report.



The National Cyber League A Community Where Cybersecurity Is a Passion

Cryptography Module

Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.

184 TH PLACE OUT OF 386 EXPERIENCED STUDENTS RANK

65 OUT OF 345
PERFORMANCE SCORE

62.5% ACCURACY



53 rd Experienced Students Percentile

Average: 179.9 Points

Average: 81.4%

Average: 76.2%

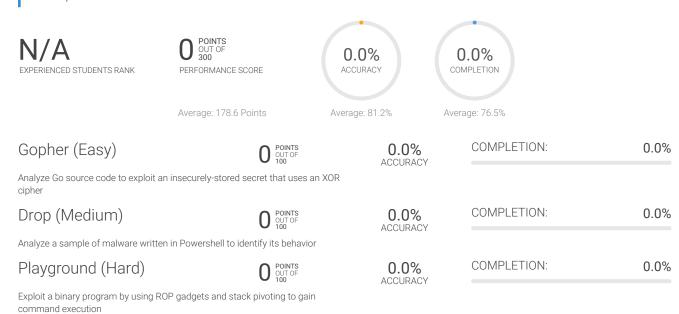
Decoding 1 (Easy)	45 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%
Analyze and obtain plaintext from messages encrypte	d with a shift cipher	7.000.0.0.		
Decoding 2 (Easy)	20 POINTS OUT OF	40.0% ACCURACY	COMPLETION:	50.0%
Analyze and obtain plaintext from messages encoded bases	with common number			
Decoding 3 (Medium)	OUT OF 50	0.0% ACCURACY	COMPLETION:	0.0%
Analyze and obtain plaintext from messages encrypte transposition cipher	d with the Rail Fence			
Secure Communication (Mediu	m) O POINTS OUT OF	0.0% accuracy	COMPLETION:	0.0%
Decrypt and encrypt PGP messages using the provide	d public and private keys			
Message (Hard)	O POINTS OUT OF 100	0.0% accuracy	COMPLETION:	0.0%

Analyze and decode a message by using frequency analysis



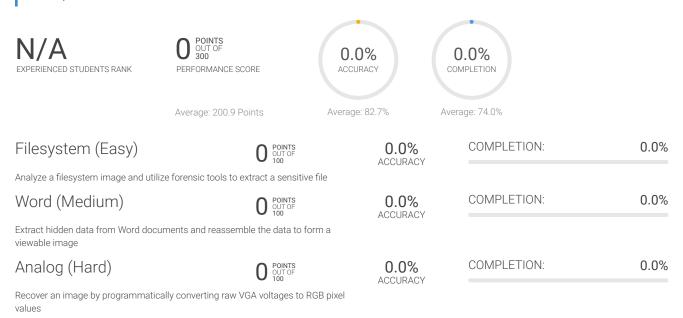
Enumeration & Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.



Forensics Module

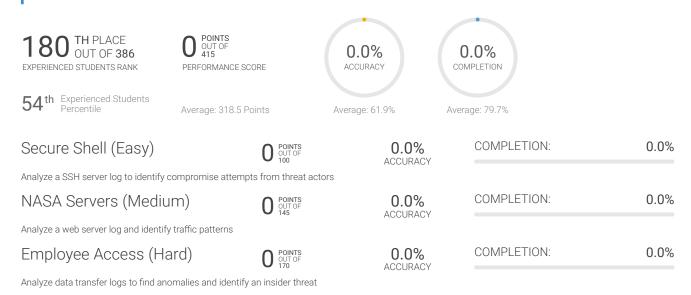
Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.





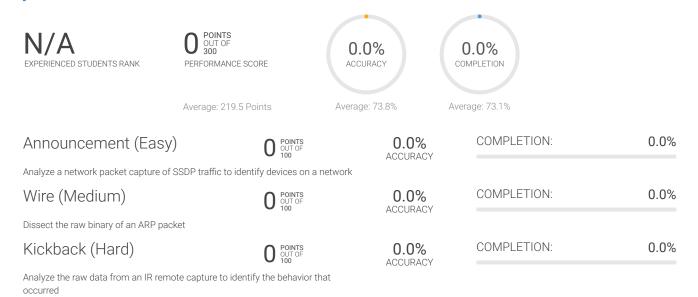
Log Analysis Module

Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.



Network Traffic Analysis Module

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.





Open Source Intelligence Module

Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.

152 ND PLACE OUT OF 386 EXPERIENCED STUDENTS RANK 305 POINTS OUT OF 325
PERFORMANCE SCORE





61 st Experienced Students Percentile

Average: 288.8 Points

Average: 84.6%

Average: 93.5%

Rules of Conduct (Easy)	25 POINTS OUT OF 25	83.3% ACCURACY	COMPLETION:	100.0%
Introductory challenge on acceptable conduct during NCL	-			
Lucky Charms (Easy)	80 POINTS OUT OF	25.0% ACCURACY	COMPLETION:	66.7%
Locate a physical location by performing conversions between coordinate systems	ween different			
Hidden in Plain Sight (Medium)	100 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%
Utilize open source tools to identify and decode a message esoteric language	ge encoded using an			
Lost (Hard)	100 POINTS OUT OF	50.0% ACCURACY	COMPLETION:	100.0%

Utilize open source tools to perform an analysis on a slightly redacted photo and geolocate the subject of the image

0.0%



Password Cracking Module

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.



	30	ACCURACY		
Generate password hashes for MD4, MD5, SHA5	12			
Rockyou (Easy)	POINTS OUT OF 45	0.0% accuracy	COMPLETION:	0.0%
Crack SHA1 password hashes for password four	nd in the rockyou breach			
Defaults (Medium)	O POINTS OUT OF 100	0.0% ACCURACY	COMPLETION:	0.0%
Build a custom wordlist to crack passwords not f	ound in common wordlists			
DOCX (Medium)	OUT OF 45	0.0% ACCURACY	COMPLETION:	0.0%
Crack the password for a protected Microsoft Wo	ord file			
Fantasy (Hard)	POINTS OUT OF	0.0%	COMPLETION:	0.0%

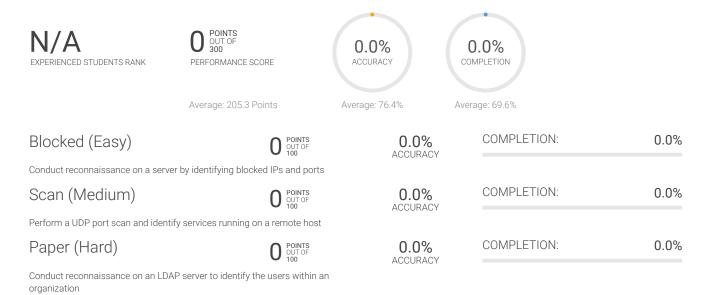
ACCURACY

Build a custom wordlist to crack passwords not found in common wordlists and augment with rules for special characters



Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.



Web Application Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

