

NCL Spring 2024 Individual Game Scouting Report

Dear Paul Badu Yakubu.

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 fouryear 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/3FP4KGQBY7VX

Congratulations for your participation in the NCL Spring 2024 Individual 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 278TH PLACE **OUT OF 526 PERCENTILE**

48TH

NATIONAL CYBER LEAGUE SCORE CARD

NCL SPRING 2024 INDIVIDUAL GAME

YOUR TOP CATEGORIES

OPEN SOURCE INTELLIGENCE 63RD PERCENTILE

CRYPTOGRAPHY 53RD PERCENTILE



Average: 75.7%

cyberskyline.com/report ID: 3FP4KGQBY7VX



NCL Spring 2024 Individual Game

The NCL Individual Game is designed for student players nationwide to compete in realtime in the categories listed below. The Individual Game evaluates the technical cybersecurity skills of the individual, without the assistance of others.

278 TH PLACE OUT OF 526 EXPERIENCED STUDENTS RANK

360 POINTS OUT OF 3000 PERFORMANCE SCORE





48th Experienced Students Percentile

Average: 1487.0 Points

Average: 75.7%

Average: 55.7%

Cryptography	1 1 O POINTS	100.0%	COMPLETION:	42.9%
Cryptography	110 POINTS OUT OF 370	ACCURACY	OOMI EETION.	72.770
Identify techniques used to encrypt or obfuscate mess extract the plaintext.	ages and leverage tools to			
Enumeration & Exploitation	OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnerabilities and use security measures in code and compiled binaries.	them to bypass the			
Forensics	OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques to analyze, procinvestigate digital evidence in a computer-related incident				
Log Analysis	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques to establish a bar operation and identify malicious activities using log file				
Network Traffic Analysis	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify malicious and benign network traffic to demon potential security breaches.	strate an understanding of	7.00014101		
Open Source Intelligence	250 POINTS OUT OF 430	78.9% ACCURACY	COMPLETION:	60.0%
Utilize publicly available information such as search en social media, and more to gain in-depth knowledge on				
Password Cracking	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify types of password hashes and apply various to determine plaintext passwords.	chniques to efficiently			
Scanning & Reconnaissance	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify and use the proper tools to gain intelligence ab services and potential vulnerabilities.	out a target including its			
Web Application Exploitation	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnerabilities 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.

251 ST PLACE OUT OF 526 EXPERIENCED STUDENTS RANK

110 POINTS OUT OF 370

PERFORMANCE SCORE

100.0% ACCURACY



53 rd Experienced Students Percentile

method

Average: 235.3 Points

Average: 86.9%

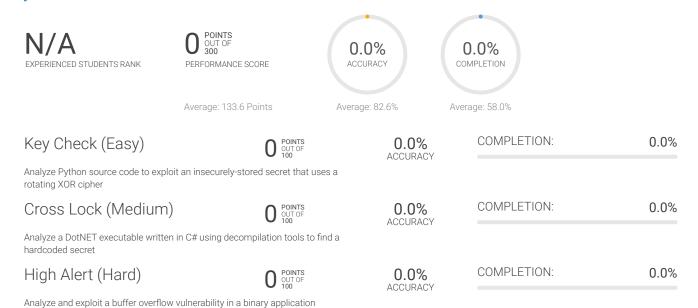
Average: 72.1%

Bases (Easy)	40 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Analyze and obtain the plaintext from messages enco	oded with common number				
Ancient Cipher (Easy)	70 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Analyze and obtain the plaintext for a message encry substitution cipher	pted with the Atbash	7,00010.01			
Boxed In (Medium)	O POINTS OUT OF 80	0.0%	COMPLETION:	0.0%	
Analyze and obtain the plaintext for a message encry type of Transposition Cipher	pted with a Box Cipher, a	ACCONACT			
Validation (Medium)	O POINTS OUT OF 80	0.0%	COMPLETION:	0.0%	
Analyze and decode a x509 certificate used for public key cryptography					
Love's the AES (Hard)	O POINTS OUT OF	0.0% accuracy	COMPLETION:	0.0%	
Decrypt an AES-encrypted message by exploiting an	insecure key generation				



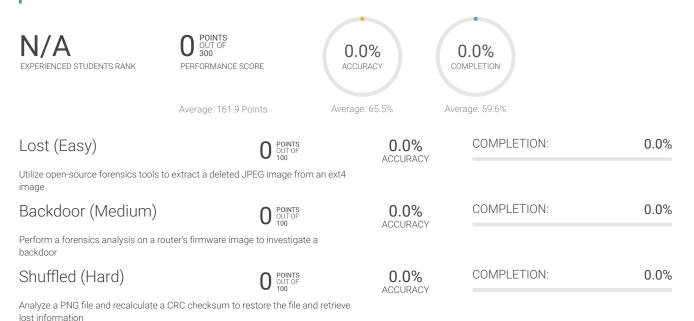
Enumeration & Exploitation Module

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



Forensics Module

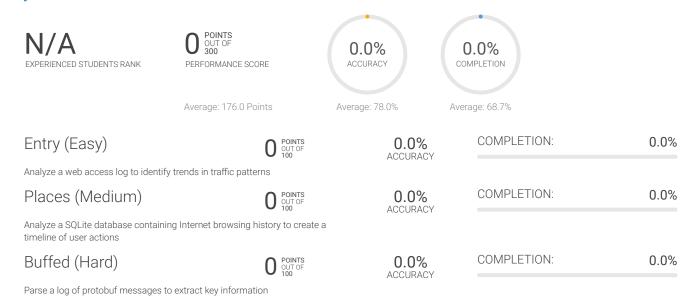
Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.





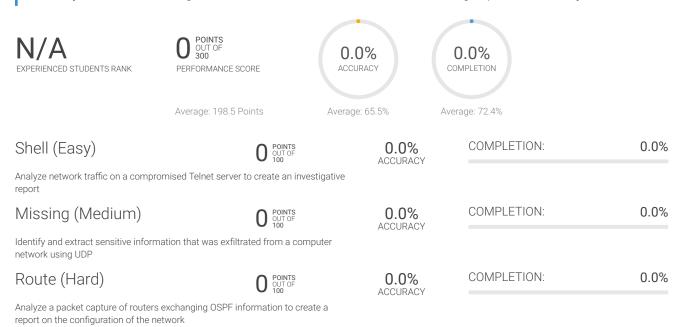
Log Analysis Module

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.

197 TH PLACE OUT OF 526 EXPERIENCED STUDENTS RANK 250 POINTS OUT OF 430





63rd Experienced Students Percentile

Average: 301.5 Points

Average: 74.3%

Average: 72.3%

Rules of Conduct (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION:	100.0%			
Introductory challenge on acceptable conduct during NC							
Guess Who (Easy)	100 POINTS OUT OF 100	71.4% ACCURACY	COMPLETION:	100.0%			
Identify and use basic OSINT tools to find public information of a given IP							
Exit Node (Easy)	100 POINTS OUT OF	85.7% ACCURACY	COMPLETION:	100.0%			
Search online databases to gather information on a Tor Exit Node							
Stuck on The Net (Medium)	20 POINTS OUT OF	50.0% ACCURACY	COMPLETION:	20.0%			
Utilize the Wayback Internet Archive Machine to view old data that is no longer available on the Internet							
Plane (Hard)	O POINTS OUT OF 100	0.0% ACCURACY	COMPLETION:	0.0%			

Use publicly available open source tools to analyze the flight patterns of planes



Password Cracking Module

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

0.0% 0.0% EXPERIENCED STUDENTS RANK PERFORMANCE SCORE ACCURACY COMPLETION Average: 150.3 Points Average: 92.4% Average: 54.6% COMPLETION: 0.0% Hashing (Easy) OUT OF 0.0% ACCURACY Generate password hashes for MD5, SHA1, and SHA256 COMPLETION: 0.0% Rockyou (Easy) 0.0% ACCURACY Crack MD5 password hashes for password found in the rockyou breach COMPLETION: 0.0% Windows (Easy) 0.0% ACCURACY Crack Windows NTLM password hashes using rainbow tables COMPLETION: 0.0% Pattern (Medium) 0.0% **ACCURACY** Build a wordlist or pattern rule to crack password hashes of a known pattern PDF (Medium) 0.0% COMPLETION: 0.0% ACCURACY Crack the insecure password for a protected PDF file COMPLETION: 0.0% Wordlist (Hard) 0.0% ACCURACY

Build a custom wordlist to crack passwords by augmenting permutation rules using known password complexity requirements

Build a wordlist to crack passwords not found in common wordlists

Complexity (Hard)



0.0%

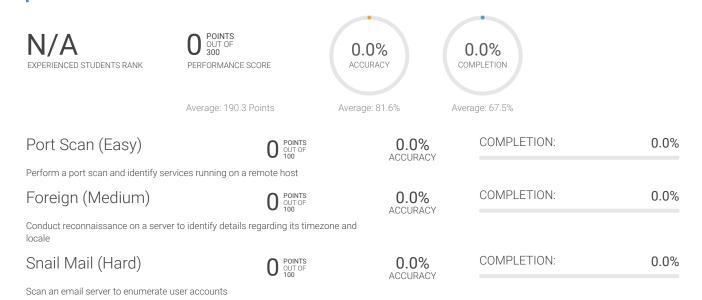
COMPLETION:

0.0% ACCURACY



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.

