NCL Spring 2022 Team Game Scouting Report

Dear Michael Silva (Team "ret2rev"),

Thank you for participating in the National Cyber League (NCL) 2022 Spring 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 2022 Spring Season had 6,610 students/players and 468 faculty/coaches from more than 500 two- and four-year schools & 80 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from April 8 through April 10. The Team Game CTF event took place from April 22 through April 24. The games were conducted in real-time for students across the country.

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/GX32F90NHFRP

Based on the the performance detailed in this NCL Scouting Report, you have earned **17 hours** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via nationalcyberleague.org/comptia.

Congratulations for your participation in the NCL 2022 Spring Team Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

David Zeichick
NCL Commissioner

NATIONAL CYBER LEAGUE SCORE CARD

NCL 2022 SPRING TEAM GAME

YOUR TOP CATEGORIES
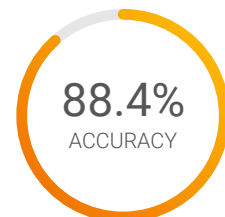
WEB APPLICATION EXPLOITATION	LOG ANALYSIS	ENUMERATION & EXPLOITATION
100TH PERCENTILE	100TH PERCENTILE	100TH PERCENTILE

88.4% ACCURACY

Average: 60.8%

cyberskyline.com/report
ID: GX32F90NHFRP

NATIONAL RANK
**21ST PLACE
OUT OF 3658**

**PERCENTILE
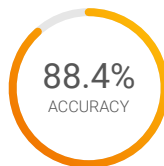100TH**

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NCL Spring 2022 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.

21 ST PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

2530 POINTS OUT OF 3000
PERFORMANCE SCORE

Average: 876.5 Points

88.4% ACCURACY

Average: 60.8%
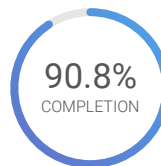
90.8% COMPLETION

Average: 35.7%

Cryptography

245 POINTS OUT OF 345

100.0% ACCURACY

COMPLETION: 91.7%

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

Enumeration & Exploitation

370 POINTS OUT OF 370

94.4% ACCURACY

COMPLETION: 100.0%

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

Forensics

270 POINTS OUT OF 300

92.9% ACCURACY

COMPLETION: 86.7%

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

Log Analysis

250 POINTS OUT OF 300

77.3% ACCURACY

COMPLETION: 81.0%

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

305 POINTS OUT OF 345

76.9% ACCURACY

COMPLETION: 95.2%

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

Open Source Intelligence

300 POINTS OUT OF 300

81.0% ACCURACY

COMPLETION: 100.0%

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

Password Cracking

310 POINTS OUT OF 340

100.0% ACCURACY

COMPLETION: 95.8%

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

Scanning & Reconnaissance

220 POINTS OUT OF 300

100.0% ACCURACY

COMPLETION: 83.3%

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

Web Application Exploitation

160 POINTS OUT OF 300

100.0% ACCURACY

COMPLETION: 62.5%

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

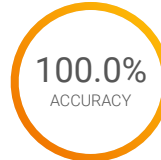Note: Survey module (100 points) was excluded from this report.

Michael Silva
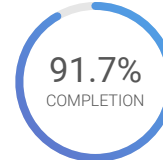msilv204@tamu.edu

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CYBER SKYLINE

Cryptography Module

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

35 TH PLACE
OUT OF **3658**
NATIONAL RANK

100th National Percentile

245 POINTS
OUT OF **345**
PERFORMANCE SCORE

Average: 116.7 Points

100.0%
ACCURACY

Average: 74.2%

91.7%
COMPLETION

Average: 55.7%

Security Control Assessor
Secure Software Assessor
Exploitation Analyst
Cyber Operator
Security Architect

Decoding 1 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 2 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 3 (Medium)	35 POINTS OUT OF 35	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 4 (Medium)	45 POINTS OUT OF 45	100.0% ACCURACY	COMPLETION: 100.0%
Decoding 5 (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION: 0.0%
Stego (Medium)	50 POINTS OUT OF 50	100.0% ACCURACY	COMPLETION: 100.0%
Signature (Hard)	75 POINTS OUT OF 75	100.0% ACCURACY	COMPLETION: 100.0%

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The National Cyber League
A Community Where Cybersecurity Is a Passion
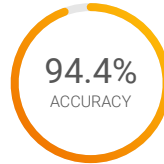
Michael Silva
msilv204@tamu.edu

Enumeration & Exploitation Module

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

19 TH PLACE OUT OF **3658**
NATIONAL RANK

100 th National Percentile

370 POINTS OUT OF 370
PERFORMANCE SCORE

Average: 99.4 Points

94.4% ACCURACY

Average: 60.9%

100.0% COMPLETION

Average: 35.1%

Cyber Operator
Target Developer
Exploitation Analyst
Software Developer
Systems Security Analyst

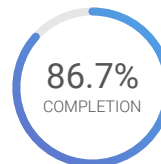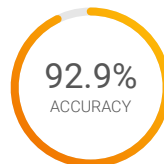| Challenge	Points	Accuracy	Completion
Secure Server (Easy)	80 POINTS OUT OF 80	100.0% ACCURACY	COMPLETION: 100.0%
dSafe (Medium)	90 POINTS OUT OF 90	100.0% ACCURACY	COMPLETION: 100.0%
Hidden (Hard)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Speedy (Hard)	100 POINTS OUT OF 100	85.7% ACCURACY	COMPLETION: 100.0%

Forensics Module

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

34 TH PLACE OUT OF **3658**
NATIONAL RANK

100 th National Percentile

270 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 154.7 Points

92.9% ACCURACY

Average: 64.8%

86.7% COMPLETION

Average: 36.8%

Cyber Defense Forensics Analyst
Cyber Crime Investigator
Cyber Defense Incident Responder
Cyber Defense Analyst

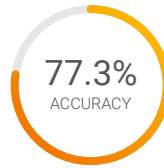| Challenge	Points	Accuracy	Completion
Leaky (Easy)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Registry (Medium)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Dump (Hard)	70 POINTS OUT OF 100	85.7% ACCURACY	COMPLETION: 75.0%

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CYBER SKYLINE

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.
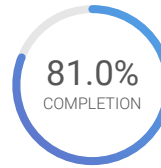
16 TH PLACE OUT OF **3658**
NATIONAL RANK

100 th National Percentile

250 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 106.5 Points

77.3% ACCURACY
Average: 41.0%

81.0% COMPLETION
Average: 34.4%

Cyber Defense Analyst
Systems Security Analyst
All-Source Analyst
Cyber Defense Forensics Analyst
Data Analyst

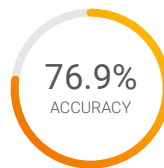|	Points	Accuracy	Completion
Entertainment (Easy)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Eventful (Medium)	100 POINTS OUT OF 100	75.0% ACCURACY	COMPLETION: 100.0%
Oddball (Hard)	50 POINTS OUT OF 100	57.1% ACCURACY	COMPLETION: 50.0%

Network Traffic Analysis Module

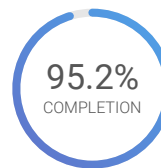Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.

64 TH PLACE OUT OF **3658**
NATIONAL RANK

99 th National Percentile

305 POINTS OUT OF 345
PERFORMANCE SCORE

Average: 138.6 Points

76.9% ACCURACY
Average: 48.6%

95.2% COMPLETION
Average: 45.4%

Cyber Defense Analyst
All-Source Analyst
Cyber Defense Incident Responder
Target Network Analyst
Cyber Operator

	Points	Accuracy	Completion
Shell (Easy)	70 POINTS OUT OF 70	83.3% ACCURACY	COMPLETION: 100.0%
Corp Net (Medium)	100 POINTS OUT OF 100	60.0% ACCURACY	COMPLETION: 100.0%
Wifi Cracking (Medium)	35 POINTS OUT OF 75	75.0% ACCURACY	COMPLETION: 75.0%
Stream (Hard)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%

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CYBER SKYLINE

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.

62ND PLACE OUT OF 3658
NATIONAL RANK

99th National Percentile

300 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 182.7 Points

81.0% ACCURACY

Average: 63.1%

100.0% COMPLETION
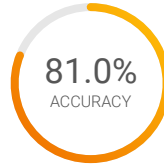
Average: 77.5%

Systems Security Analyst
Target Developer
System Administrator
Research & Development Specialist
Cyber Intel Planner

Module	Points	Accuracy	Completion
Rules of Conduct (Easy)	25 POINTS OUT OF 25	83.3% ACCURACY	COMPLETION: 100.0%
Blockchain (Easy) Use online resources to identify stolen funds on the blockchain	65 POINTS OUT OF 65	62.5% ACCURACY	COMPLETION: 100.0%
Banking (Medium)	50 POINTS OUT OF 50	100.0% ACCURACY	COMPLETION: 100.0%
License (Medium)	60 POINTS OUT OF 60	100.0% ACCURACY	COMPLETION: 100.0%
Rendezvous (Hard)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%

POWERED BY
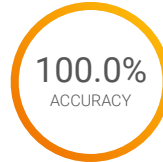CYBER SKYLINE

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Password Cracking Module

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

22 ND PLACE
OUT OF **3658**
NATIONAL RANK

100th National Percentile

310 POINTS
OUT OF 340
PERFORMANCE SCORE

Average: 157.3 Points

100.0%
ACCURACY

Average: 88.2%

95.8%
COMPLETION

Average: 58.5%

Cyber Operator
Exploitation Analyst
Systems Security Analyst
Cyber Defense Incident
Responder
Cyber Crime Investigator

Cracking 1 (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION:	100.0%

Crack MD5 password hashes from a known wordlist

Cracking 2 (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION:	100.0%

Crack SHA1 password hashes from a known wordlist

Cracking 3 (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION:	100.0%

Crack Windows NTLM password hashes

Cracking 4 (Medium)	30 POINTS OUT OF 30	100.0% ACCURACY	COMPLETION:	100.0%

Extract and crack a wordpress admin password from a database dump

Cracking 5 (Medium)	50 POINTS OUT OF 50	100.0% ACCURACY	COMPLETION:	100.0%

Build a wordlist to crack passwords following a specific pattern

Cracking 6 (Hard)	115 POINTS OUT OF 145	100.0% ACCURACY	COMPLETION:	85.7%

Build a wordlist to crack passwords not found in common wordlists

Zip (Medium)	25 POINTS OUT OF 25	100.0% ACCURACY	COMPLETION:	100.0%

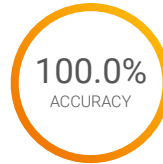Crack the password of a ZIP archive file

Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.
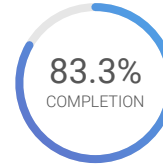
34 TH PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

220 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 125.7 Points

100.0% ACCURACY

Average: 62.9%

83.3% COMPLETION

Average: 36.7%

Vulnerability Assessment Analyst
Target Network Analyst
Cyber Operations Planner
Target Developer
Security Control Assessor

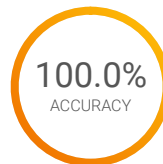|			
Seeking (Easy)	**100** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION: 100.0%
Public (Medium)	**100** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION: 100.0%
Key (Hard)	**20** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION: 50.0%

Web Application Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.
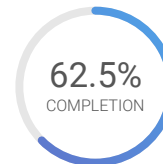
15 TH PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

160 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 43.6 Points

100.0% ACCURACY

Average: 58.2%

62.5% COMPLETION

Average: 25.7%

Cyber Operator
Software Developer
Exploitation Analyst
Systems Security Analyst
Database Administrator

Net Admin (Easy)	**100** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION: 100.0%
Travel Agency (Medium)	**0** POINTS OUT OF 100	**0.0%** ACCURACY	COMPLETION: 0.0%
Search (Hard)	**60** POINTS OUT OF 100	**100.0%** ACCURACY	COMPLETION: 75.0%