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**CYBER SKYLINE**

The National Cyber League  
A Community Where Cybersecurity Is a Passion

Mitchell Patton

## NCL Fall 2025 Individual Game Scouting Report

Dear Mitchell Patton,

Thank you for participating in the National Cyber League (NCL) Fall 2025 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 Fall 2025 Season had 8,520 students/players and 538 faculty/coaches from more than 490 two- and four-year schools & 200 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from October 24 through October 26. The Team Game CTF event took place from November 7 through November 9. 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/1QVGK0D635LD](https://cyberskyline.com/report/1QVGK0D635LD)



**CompTIA.** Based on the performance detailed in this NCL Scouting Report, you have earned 12 hours of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via [nationalcyberleague.org/partners](http://nationalcyberleague.org/partners).

Congratulations for your participation in the NCL Fall 2025 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



### NATIONAL CYBER LEAGUE SCORE CARD

NCL FALL 2025 INDIVIDUAL GAME

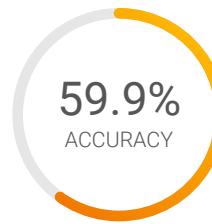
**NATIONAL RANK**  
**443<sup>RD</sup> PLACE**  
**OUT OF 7873**  
**PERCENTILE**  
**95<sup>TH</sup>**

#### YOUR TOP CATEGORIES

**NETWORK TRAFFIC ANALYSIS**  
97TH PERCENTILE

**WEB APPLICATION EXPLOITATION**  
96TH PERCENTILE

**OPEN SOURCE INTELLIGENCE**  
96TH PERCENTILE



Average: 61.0%

[cyberskyline.com/report](https://cyberskyline.com/report/1QVGK0D635LD)  
ID: 1QVGK0D635LD

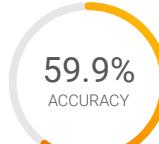


## NCL Fall 2025 Individual Game

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.

**443<sup>RD PLACE</sup>**  
OUT OF 7873  
NATIONAL RANK

**2115<sup>POINTS OUT OF 3000</sup>**  
PERFORMANCE SCORE



**95<sup>th</sup> National Percentile**

Average: 974.0 Points

Average: 61.0%

Average: 40.1%

### Cryptography

**215<sup>POINTS OUT OF 355</sup>**

**61.5%  
ACCURACY**

COMPLETION:

80.0%

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

### Enumeration & Exploitation

**100<sup>POINTS OUT OF 300</sup>**

**100.0%  
ACCURACY**

COMPLETION:

50.0%

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

### Forensics

**200<sup>POINTS OUT OF 300</sup>**

**50.0%  
ACCURACY**

COMPLETION:

80.0%

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

### Log Analysis

**230<sup>POINTS OUT OF 300</sup>**

**46.2%  
ACCURACY**

COMPLETION:

85.7%

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

**215<sup>POINTS OUT OF 300</sup>**

**61.9%  
ACCURACY**

COMPLETION:

92.9%

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

### Open Source Intelligence

**345<sup>POINTS OUT OF 385</sup>**

**48.2%  
ACCURACY**

COMPLETION:

96.4%

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

**260<sup>POINTS OUT OF 360</sup>**

**89.5%  
ACCURACY**

COMPLETION:

73.9%

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

### Scanning & Reconnaissance

**240<sup>POINTS OUT OF 300</sup>**

**73.7%  
ACCURACY**

COMPLETION:

93.3%

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

### Web Application Exploitation

**210<sup>POINTS OUT OF 300</sup>**

**72.7%  
ACCURACY**

COMPLETION:

66.7%

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.



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## Cryptography Module

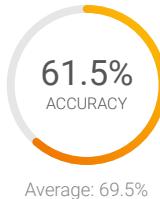
Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.

**948** TH PLACE  
OUT OF 7873  
NATIONAL RANK

**215** POINTS OUT OF  
355  
PERFORMANCE SCORE

88<sup>th</sup> National  
Percentile

Average: 157.0 Points



### Baking Soda (Easy)

**50** POINTS OUT OF  
50

**100.0%**  
ACCURACY

COMPLETION: 100.0%

Analyze and obtain the plaintext from text encoded with common number bases.

### ROTten domains (Easy)

**45** POINTS OUT OF  
45

**75.0%**  
ACCURACY

COMPLETION: 100.0%

Analyze and obtain plaintext for messages encrypted with a shift cipher.

### Convenience (Easy)

**60** POINTS OUT OF  
60

**66.7%**  
ACCURACY

COMPLETION: 100.0%

Analyze and obtain the plaintext from text encrypted with Vigenère cipher.

01101011 01100101 01111001  
(Medium)

**0** POINTS OUT OF  
40

**0.0%**  
ACCURACY

COMPLETION: 0.0%

Decrypt a message using an XOR key.

### Squirtle (Medium)

**30** POINTS OUT OF  
60

**75.0%**  
ACCURACY

COMPLETION: 60.0%

Analyze and exploit a DES encryption implementation using known weak keys.

### Temet Nosce (Hard)

**30** POINTS OUT OF  
100

**42.9%**  
ACCURACY

COMPLETION: 75.0%

Exploit a flaw in AES encryption to decrypt text with an unknown secret key.



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## Enumeration & Exploitation Module

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

**882<sup>ND</sup>** PLACE  
OUT OF 7873  
NATIONAL RANK

**100** POINTS OUT OF 300  
PERFORMANCE SCORE



89<sup>th</sup> National Percentile

Average: 98.2 Points

Average: 60.4%



Average: 49.4%

### Deno Finds a Way (Easy)

**100** POINTS OUT OF 100

100.0%  
ACCURACY

COMPLETION:

100.0%

Review source code and exploit a command injection vulnerability to escalate privileges.

### Stacked (Medium)

**0** POINTS OUT OF 100

0.0%  
ACCURACY

COMPLETION:

0.0%

Perform an HTTP-triggered stack overflow to retrieve critical information from the server.

### Sewer System (Hard)

**0** POINTS OUT OF 100

0.0%  
ACCURACY

COMPLETION:

0.0%

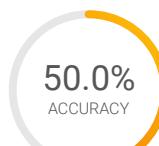
Exploit a race condition in software to return protected data.

## Forensics Module

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

**481<sup>ST</sup>** PLACE  
OUT OF 7873  
NATIONAL RANK

**200** POINTS OUT OF 300  
PERFORMANCE SCORE



94<sup>th</sup> National Percentile

Average: 115.2 Points



Average: 48.4%

### Four & Six (Easy)

**100** POINTS OUT OF 100

53.3%  
ACCURACY

COMPLETION:

100.0%

Use a forensics tool to examine unallocated space for files.

### This Bytes (Medium)

**100** POINTS OUT OF 100

44.4%  
ACCURACY

COMPLETION:

100.0%

Research JPEG specifications to repair an image.

### Stage Left (Hard)

**0** POINTS OUT OF 100

0.0%  
ACCURACY

COMPLETION:

0.0%

Fix a corrupted SQLite database file and analyze the tables.



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## 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.

**814<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**230** POINTS OUT OF 300  
PERFORMANCE SCORE



**90<sup>th</sup>** National Percentile

Average: 160.8 Points

Average: 55.3%



**85.7%**  
COMPLETION

Average: 61.1%

### Process This (Easy)

**100** POINTS OUT OF 100

**60.0%**  
ACCURACY

COMPLETION:

**100.0%**

Examine parsed Sysmon JSON process tree logs to determine a chain of events.

### Brute Force (Medium)

**100** POINTS OUT OF 100

**62.5%**  
ACCURACY

COMPLETION:

**100.0%**

Identify a brute force attack by analyzing patterns of malicious actor behavior in web server logs.

### Stolen Swipe (Hard)

**30** POINTS OUT OF 100

**12.5%**  
ACCURACY

COMPLETION:

**33.3%**

Parse and correlate ATM and EMV Field 55 logs (ISO 8583 standard) to identify a fraudulent transaction.

## Network Traffic Analysis Module

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

**285<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**215** POINTS OUT OF 300  
PERFORMANCE SCORE



**97<sup>th</sup>** National Percentile

Average: 112.2 Points

Average: 51.6%



**92.9%**  
COMPLETION

Average: 45.0%

### RMM Tool (Easy)

**100** POINTS OUT OF 100

**41.7%**  
ACCURACY

COMPLETION:

**100.0%**

Analyze DNS packet requests and responses to identify a suspicious download.

### Drive-by Download (Medium)

**100** POINTS OUT OF 100

**85.7%**  
ACCURACY

COMPLETION:

**100.0%**

Identify details of a drive-by-download attack and de-obfuscate JavaScript.

### The Insider (Hard)

**15** POINTS OUT OF 100

**100.0%**  
ACCURACY

COMPLETION:

**66.7%**

Reconstruct a file from UDP packets and decode VBA script.



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## 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.

**387<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**345** POINTS  
OUT OF  
385  
PERFORMANCE SCORE



**96<sup>th</sup>** National  
Percentile

Average: 213.9 Points

Average: 58.5%

Average: 65.3%

### Rules of Conduct (Easy)

**30** POINTS  
OUT OF  
30

**100.0%**  
ACCURACY

COMPLETION:

**100.0%**

Introductory challenge on acceptable conduct during NCL.

### Cooking Breakfast (Easy)

**45** POINTS  
OUT OF  
45

**100.0%**  
ACCURACY

COMPLETION:

**100.0%**

Parse Chef (esolang) code to determine what input it requires.

### NotPetya (Easy)

**100** POINTS  
OUT OF  
100

**53.3%**  
ACCURACY

COMPLETION:

**100.0%**

Gather key information on NotPetya malware.

### Flamed (Medium)

**15** POINTS  
OUT OF  
55

**11.1%**  
ACCURACY

COMPLETION:

**50.0%**

Use open source tools to find patterns between GPS locations.

### Material (Medium)

**80** POINTS  
OUT OF  
80

**71.4%**  
ACCURACY

COMPLETION:

**100.0%**

Use the EDGAR database to filter 8-K filings.

### I Cee Stuff (Hard)

**75** POINTS  
OUT OF  
75

**29.4%**  
ACCURACY

COMPLETION:

**100.0%**

Use ICS/OT OSINT tools do passive recon on infrastructure.



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## Password Cracking Module

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

**1016<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**260** POINTS OUT OF  
360  
PERFORMANCE SCORE

**88<sup>th</sup>** National  
Percentile

Average: 163.6 Points



Average: 86.3%



Average: 50.2%

### Hashing (Easy)

**40** POINTS OUT OF  
40

**80.0%**  
ACCURACY

COMPLETION:

**100.0%**

Generate hashes for passwords with the MD5, NTLM, and SHA256 hashing algorithms.

### Crack You One More Time (Easy)

**50** POINTS OUT OF  
50

**100.0%**  
ACCURACY

COMPLETION:

**100.0%**

Crack MD5 and SHA1 password hashes using password cracking tools.

### Oph the Dome (Easy)

**60** POINTS OUT OF  
60

**100.0%**  
ACCURACY

COMPLETION:

**100.0%**

Crack Windows NTLM password hashes using rainbow tables.

### Redacted (Medium)

**50** POINTS OUT OF  
50

**100.0%**  
ACCURACY

COMPLETION:

**100.0%**

Crack an insecure password for a protected PDF file and recover redacted information.

### MasKquerade (Medium)

**60** POINTS OUT OF  
60

**80.0%**  
ACCURACY

COMPLETION:

**100.0%**

Build a wordlist or pattern rule to crack password hashes of a known pattern.

### Enterprise (Hard)

**0** POINTS OUT OF  
100

**0.0%**  
ACCURACY

COMPLETION:

**0.0%**

Build a wordlist to crack passwords not found in common wordlists.



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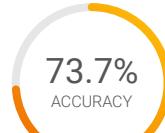
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## Scanning & Reconnaissance Module

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

**617<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**240** POINTS OUT OF 300  
PERFORMANCE SCORE



**93<sup>rd</sup>** National Percentile

Average: 152.1 Points

Average: 72.9%

Average: 58.2%

### Portscan (Easy)

**100** POINTS OUT OF 100

**100.0%** ACCURACY

COMPLETION:

**100.0%**

Use nmap to scan a machine and discover open ports.

### Chain (Medium)

**100** POINTS OUT OF 100

**83.3%** ACCURACY

COMPLETION:

**100.0%**

Enumerate SMB to locate and retrieve a private SSH key.

### I'm TXT (Hard)

**40** POINTS OUT OF 100

**50.0%** ACCURACY

COMPLETION:

**80.0%**

Enumerate a DNS service to discover hidden files in DNS TXT records.

## Web Application Exploitation Module

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

**346<sup>TH</sup> PLACE**  
OUT OF 7873  
NATIONAL RANK

**210** POINTS OUT OF 300  
PERFORMANCE SCORE



**96<sup>th</sup>** National Percentile

Average: 120.0 Points

Average: 73.0%

Average: 31.8%

### Browser (Easy)

**100** POINTS OUT OF 100

**100.0%** ACCURACY

COMPLETION:

**100.0%**

Exploit a client-side validation weakness in a web application.

### Ersatz Motel (Medium)

**100** POINTS OUT OF 100

**71.4%** ACCURACY

COMPLETION:

**100.0%**

Perform a SQL Injection Union attack to retrieve information.

### Micro Fail (Hard)

**10** POINTS OUT OF 100

**50.0%** ACCURACY

COMPLETION:

**20.0%**

Access sensitive files on a webserver by chaining together a prototype pollution attack with an XML external entity injection attack.



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