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NCL Spring 2021 Individual Game Scouting Report

Dear Ryan Pearson,

Congratulations on a great NCL 2021 Spring Individual Game!

National Cyber League (NCL)

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. The NCL is a next-generation learning and gaming environment using high-fidelity and scenario-based challenges from Cyber Skyline. The challenges are designed around industry recognized and performance-based exam objectives to further develop student skills. If you have any questions regarding the information in this report please inquire at info@nationalcyberleague.org.

NCL 2021 Spring Season

The NCL 2021 Spring Season was designed to develop and validate player knowledge and skills in preparation for further learning, career readiness, industry certifications, and other cybersecurity competitions. The games were designed around performance-based exam objectives of CompTIA certifications and the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework published by the National Institute of Standards and Technology (NIST).

The NCL 2021 Spring Season began with the Preseason round to group players into one of three competition brackets based on skill level: Gold (top 15% of all players nationally - 629 players), Silver (the next 35% of all players nationally - 1456 players) or Bronze (the next 50% of all players nationally - 2094 players). Players who did not participate in the Preseason were not bracketed or ranked. This made the Individual Game more engaging by grouping players with similar knowledge and skill levels together. At the beginning of the NCL 2021 Spring Season, 6380 students/players and 425 faculty/coaches from more than 520 two- and four-year schools across all 50 U.S. states registered to play.

The Individual Game Capture the Flag (CTF) event took place from March 26 through March 28. The Team Game CTF event took place from April 9 through April 11. The games were conducted in real-time for students across the country.

The NCL 2021 Spring Season was powered by Cyber Skyline's cloud-based skills evaluation platform. Cyber Skyline hosted the scenario-driven cybersecurity challenges for all players to compete and track their progress in real-time.

To validate this report, please access: cyberskyline.com/report/4TE7RRKJT72V

Based on the the performance detailed in this Scouting Report, Ryan Pearson has earned **1 hour** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via nationalcyberleague.org/comptia

Thank you for your participation in the NCL 2021 Spring 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. Dan Manson
NCL Commissioner

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NCL Scouting Report

What follows is a customized NCL Scouting Report of your performance in the NCL 2021 Spring Individual Game. We hope you find it to be valuable in both confirming your skills and identifying areas for improvement. In addition, the NCL Scouting Report can be used as part of any job application, as it provides an external validation of skills as demonstrated in competitive gameplay based on industry-recognized certification exam and framework objectives.

The following definitions apply to your performance across a range of cybersecurity scenarios

- **National Rank:** overall place with respect to all players, across all Brackets
- **Bracket Rank:** overall place within the Bracket
- **Performance Score:** total points earned; the higher the score, the higher the ranking
- **Accuracy:** percentage of flag submissions that were correct (total flag captures divided by total flag attempts).
- **Completion:** percentage of possible flags submitted (total flag captures divided by total possible flags).

The following are the categories of cybersecurity scenarios that you were evaluated against:

1. Cryptography
   Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.
2. Enumeration & Exploitation
   Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.
3. Forensics
   Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.
4. Log Analysis
   Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.
5. Network Traffic Analysis
   Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.
6. Open Source Intelligence
   Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.
7. Password Cracking
   Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.
8. Scanning & Reconnaissance
   Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.
9. Web Application Exploitation
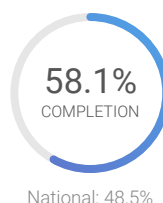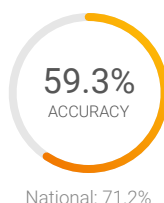   Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

NCL Spring 2021 Preseason

1488TH PLACE OUT OF **5794**
NATIONAL RANK

75th
National Percentile

720 POINTS OUT OF 1785
PERFORMANCE SCORE

Averages
National: 615.1

59.3%
ACCURACY

National: 71.2%

58.1%
COMPLETION

National: 48.5%

Based on Preseason performance, **Ryan Pearson** was placed into the **Silver Bracket** for the Individual Game.

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NCL Spring 2021 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.
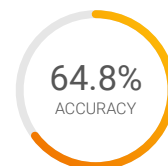
873 RD PLACE OUT OF **4180**
NATIONAL RANK
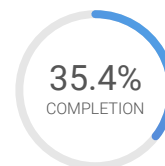
308 TH PLACE OUT OF **1455**
SILVER BRACKET RANK

800 POINTS OUT OF **3000**
PERFORMANCE SCORE

64.8% ACCURACY

35.4% COMPLETION

80th
National Percentile

79th
Silver Bracket Percentile

Averages
National: 607.9
Silver Bracket: 592.5

National: 66.1%
Silver Bracket: 65.5%

National: 26.3%
Silver Bracket: 26.1%

Category	Points	Accuracy	Completion
Cryptography	160 POINTS OUT OF 325	75.0% ACCURACY	60.0%
Enumeration & Exploitation	10 POINTS OUT OF 300	50.0% ACCURACY	7.1%
Forensics	55 POINTS OUT OF 310	30.0% ACCURACY	16.7%
Log Analysis	135 POINTS OUT OF 360	55.0% ACCURACY	40.7%
Network Traffic Analysis	35 POINTS OUT OF 365	42.9% ACCURACY	15.0%
Open Source Intelligence	85 POINTS OUT OF 300	62.5% ACCURACY	50.0%
Password Cracking	220 POINTS OUT OF 310	95.0% ACCURACY	82.6%
Scanning & Reconnaissance	0 POINTS OUT OF 300	0.0% ACCURACY	0.0%
Web Application Exploitation	0 POINTS OUT OF 330	0.0% ACCURACY	0.0%

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

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Ryan Pearson
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Cryptography Module

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

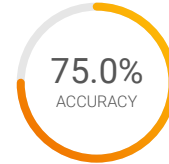**831** ST PLACE OUT OF **4180**
NATIONAL RANK

328 TH PLACE OUT OF **1455**
SILVER BRACKET RANK

160 POINTS OUT OF 325
PERFORMANCE SCORE

75.0%
ACCURACY

60.0%
COMPLETION

81st
National Percentile

78th
Silver Bracket Percentile

Averages
National: 122.0
Silver Bracket: 125.5

National: 80.8%
Silver Bracket: 81.7%

National: 48.1%
Silver Bracket: 49.7%

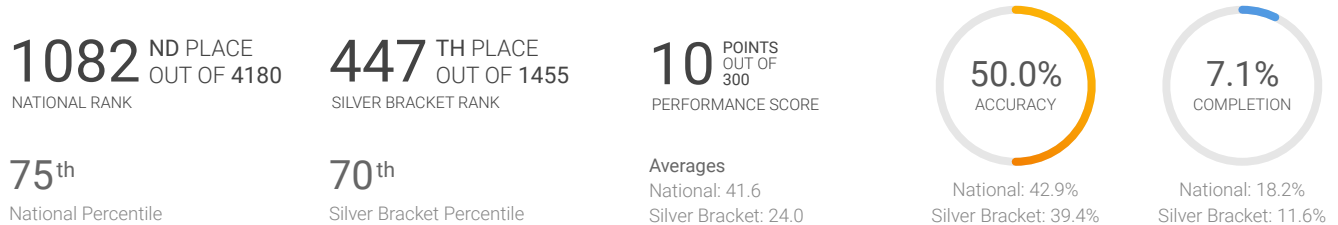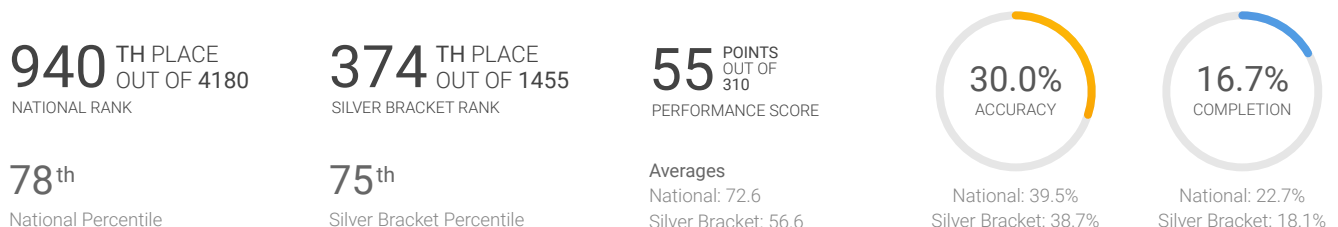| Decoding 1 (Easy) | **30** POINTS OUT OF 30 | **60.0%** ACCURACY | COMPLETION: | **100.0%** |
Decoding 2 (Easy)	**20** POINTS OUT OF 20	**100.0%** ACCURACY	COMPLETION:	**100.0%**
Decoding 3 (Easy)	**20** POINTS OUT OF 20	**100.0%** ACCURACY	COMPLETION:	**100.0%**
Decoding 4 (Medium)	**20** POINTS OUT OF 20	**100.0%** ACCURACY	COMPLETION:	**100.0%**
Decoding 5 (Hard)	**30** POINTS OUT OF 30	**100.0%** ACCURACY	COMPLETION:	**100.0%**
Puzzle (Easy)	**40** POINTS OUT OF 40	**100.0%** ACCURACY	COMPLETION:	**100.0%**
Hidden (Medium)	**0** POINTS OUT OF 50	**0.0%** ACCURACY	COMPLETION:	**0.0%**
Bubba (Medium)	**0** POINTS OUT OF 50	**0.0%** ACCURACY	COMPLETION:	**0.0%**
Unknown (Hard)	**0** POINTS OUT OF 65	**0.0%** ACCURACY	COMPLETION:	**0.0%**

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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.

1082 ND PLACE OUT OF 4180
NATIONAL RANK

447 TH PLACE OUT OF 1455
SILVER BRACKET RANK

10 POINTS OUT OF 300
PERFORMANCE SCORE

50.0% ACCURACY

7.1% COMPLETION

75th
National Percentile

70th
Silver Bracket Percentile

Averages
National: 41.6
Silver Bracket: 24.0

National: 42.9%
Silver Bracket: 39.4%

National: 18.2%
Silver Bracket: 11.6%

Open Up (Easy)	10 POINTS OUT OF 100	50.0% ACCURACY	COMPLETION: 16.7%
Popping Boxes (Medium)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION: 0.0%
Trash Compactor (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION: 0.0%

Forensics Module

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

940 TH PLACE OUT OF 4180
NATIONAL RANK

374 TH PLACE OUT OF 1455
SILVER BRACKET RANK

55 POINTS OUT OF 310
PERFORMANCE SCORE

30.0% ACCURACY

16.7% COMPLETION

78th
National Percentile

75th
Silver Bracket Percentile

Averages
National: 72.6
Silver Bracket: 56.6

National: 39.5%
Silver Bracket: 38.7%

National: 22.7%
Silver Bracket: 18.1%

Excellent Tracking (Easy)	25 POINTS OUT OF 75	33.3% ACCURACY	COMPLETION: 50.0%
Image File (Medium)	30 POINTS OUT OF 100	33.3% ACCURACY	COMPLETION: 25.0%
Sessions (Hard)	0 POINTS OUT OF 135	0.0% ACCURACY	COMPLETION: 0.0%

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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.
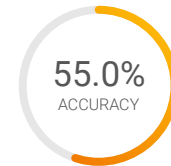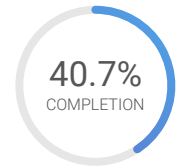
655 TH PLACE OUT OF **4180**
NATIONAL RANK

85th
National Percentile

188 TH PLACE OUT OF **1455**
SILVER BRACKET RANK

88th
Silver Bracket Percentile

135 POINTS OUT OF 360
PERFORMANCE SCORE

Averages
National: 93.6
Silver Bracket: 70.1

55.0%
ACCURACY

National: 57.5%
Silver Bracket: 57.8%

40.7%
COMPLETION

National: 29.3%
Silver Bracket: 23.0%

AWS Route 53 (Easy)	**90** POINTS OUT OF 100	54.5% ACCURACY	COMPLETION:	85.7%
Pacman (Medium)	**40** POINTS OUT OF 110	66.7% ACCURACY	COMPLETION:	44.4%
Mobile (Hard)	**5** POINTS OUT OF 150	33.3% ACCURACY	COMPLETION:	9.1%

Network Traffic Analysis Module

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.
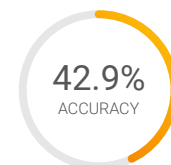
1353 RD PLACE OUT OF **4180**
NATIONAL RANK

68th
National Percentile

632 ND PLACE OUT OF **1455**
SILVER BRACKET RANK

57th
Silver Bracket Percentile

35 POINTS OUT OF 365
PERFORMANCE SCORE

Averages
National: 95.0
Silver Bracket: 77.7

42.9%
ACCURACY

National: 57.9%
Silver Bracket: 58.5%

15.0%
COMPLETION
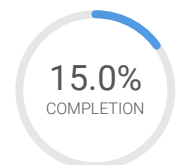
National: 36.0%
Silver Bracket: 31.3%

Checksum (Easy)	**35** POINTS OUT OF 55	42.9% ACCURACY	COMPLETION:	60.0%
Cracking (Medium)	**0** POINTS OUT OF 70	0.0% ACCURACY	COMPLETION:	0.0%
WPAD (Medium)	**0** POINTS OUT OF 115	0.0% ACCURACY	COMPLETION:	0.0%
Encrypted (Hard)	**0** POINTS OUT OF 125	0.0% ACCURACY	COMPLETION:	0.0%

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Ryan Pearson
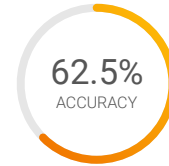rturpi01@my.blueridgectc.edu

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.

1490 TH PLACE OUT OF **4180**
NATIONAL RANK

649 TH PLACE OUT OF **1455**
SILVER BRACKET RANK

85 POINTS OUT OF 300
PERFORMANCE SCORE

62.5% ACCURACY

50.0% COMPLETION

65th
National Percentile

56th
Silver Bracket Percentile

Averages
National: 115.4
Silver Bracket: 114.3

National: 73.4%
Silver Bracket: 72.8%

National: 53.7%
Silver Bracket: 53.4%

Category	Points	Accuracy	Completion
Rules of Conduct (Easy)	15 POINTS OUT OF 15	100.0% ACCURACY	COMPLETION: 100.0%
Breached Passwords (Easy)	50 POINTS OUT OF 50	100.0% ACCURACY	COMPLETION: 100.0%
Database Lookup (Medium)	0 POINTS OUT OF 65	0.0% ACCURACY	COMPLETION: 0.0%
Covered QR (Medium)	20 POINTS OUT OF 70	40.0% ACCURACY	COMPLETION: 50.0%
Fake Profile (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION: 0.0%

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Password Cracking Module

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.
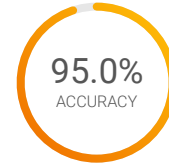
484 TH PLACE OUT OF **4180**
NATIONAL RANK

127 TH PLACE OUT OF **1455**
SILVER BRACKET RANK

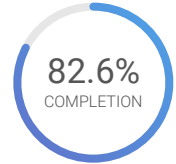**220** POINTS OUT OF 310
PERFORMANCE SCORE

95.0% ACCURACY

82.6% COMPLETION

89th
National Percentile

92nd
Silver Bracket Percentile

Averages
National: 110.5
Silver Bracket: 102.6

National: 89.0%
Silver Bracket: 89.5%

National: 45.3%
Silver Bracket: 42.9%

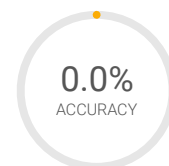|	Points	Accuracy	Completion
Hashing (Easy)	15 POINTS OUT OF 15	75.0% ACCURACY	100.0%
Cracking 1 (Easy)	30 POINTS OUT OF 30	100.0% ACCURACY	100.0%
Cracking 2 (Easy)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Cracking 3 (Medium)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Cracking 4 (Hard)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Cracking 5 (Hard)	40 POINTS OUT OF 100	100.0% ACCURACY	66.7%
Zip (Medium)	0 POINTS OUT OF 30	0.0% ACCURACY	0.0%

Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.
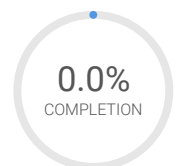
N/A
NATIONAL RANK

N/A
SILVER BRACKET RANK

0 POINTS OUT OF 300
PERFORMANCE SCORE

0.0% ACCURACY

0.0% COMPLETION

Averages
National: 50.6
Silver Bracket: 35.1

National: 66.8%
Silver Bracket: 67.6%

National: 24.4%
Silver Bracket: 18.4%

	Points	Accuracy	Completion
Hidden Treasure (Easy)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
TeamSpeak (Medium)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
Router (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%

Web Application Exploitation Module

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

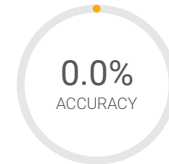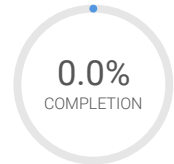| N/A	N/A	0 POINTS OUT OF 330	0.0%	0.0%
NATIONAL RANK	SILVER BRACKET RANK	PERFORMANCE SCORE	ACCURACY	COMPLETION

Averages
National: 54.2
Silver Bracket: 32.4

National: 60.3%
Silver Bracket: 58.8%

National: 26.6%
Silver Bracket: 19.9%

Doge Community (Easy)	0 POINTS OUT OF 100	0.0% ACCURACY	COMPLETION:	0.0%
Infosec Blog (Medium)	0 POINTS OUT OF 110	0.0% ACCURACY	COMPLETION:	0.0%
Hacker Login (Hard)	0 POINTS OUT OF 120	0.0% ACCURACY	COMPLETION:	0.0%