



Conference & Expo
June 3-5, 2024 • Dallas, TX



CALEB BARLOW

CEO  cyberbit

**RAISING THE BAR: ACTIONING INSIGHTS FROM 1
MILLION HOURS OF ANNUAL CYBER SIMULATIONS**

#NICECyberCON24



Raising the Bar

Actioning Insights from
1 MILLION HOURS
of Cyber Drills

June 4, 2024
Caleb Barlow, CEO, Cyberbit



Boxing is a
required class
at West Point

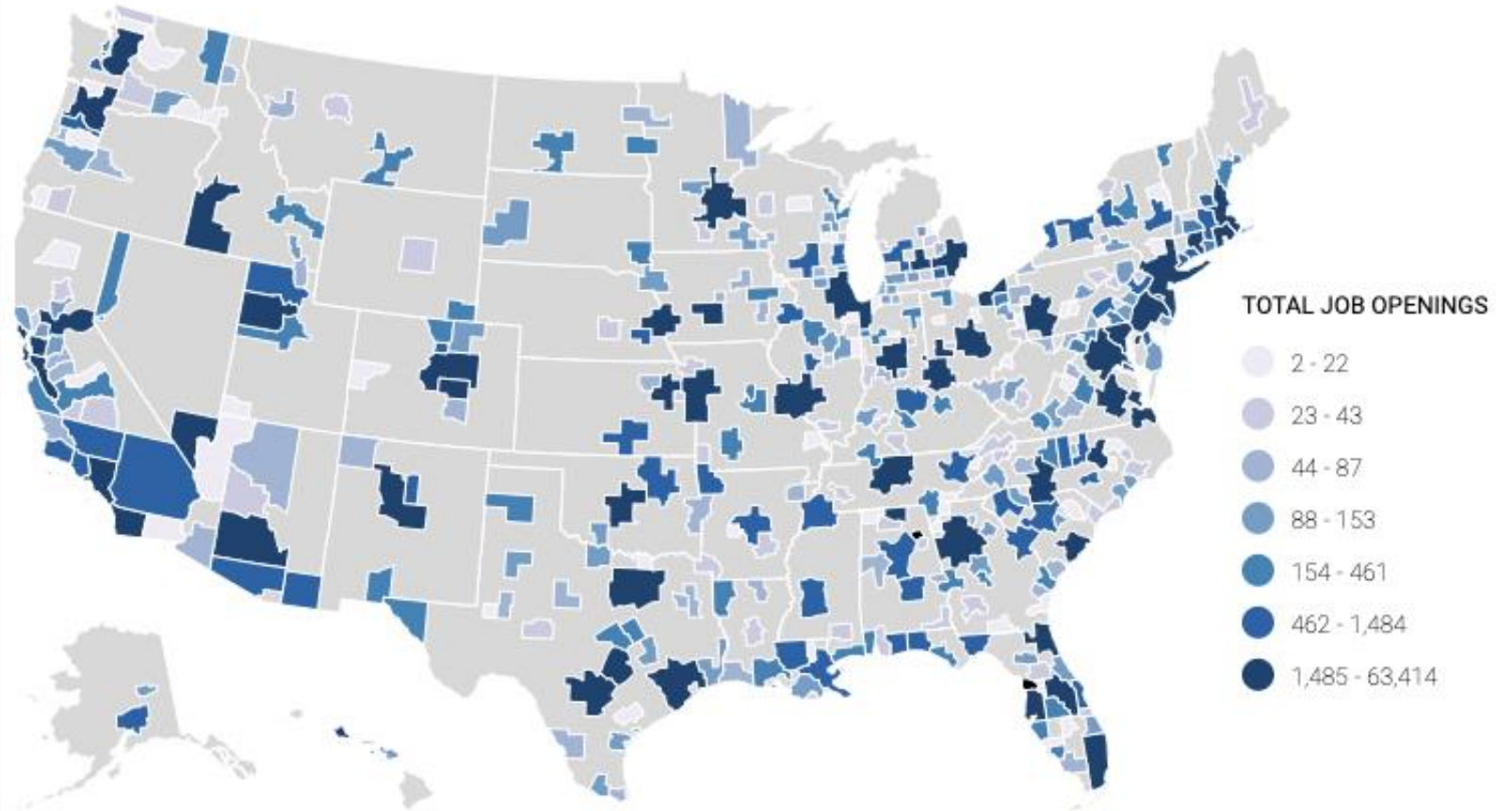


Cybersecurity Jobs Remain Unfilled

Cyberseek.org

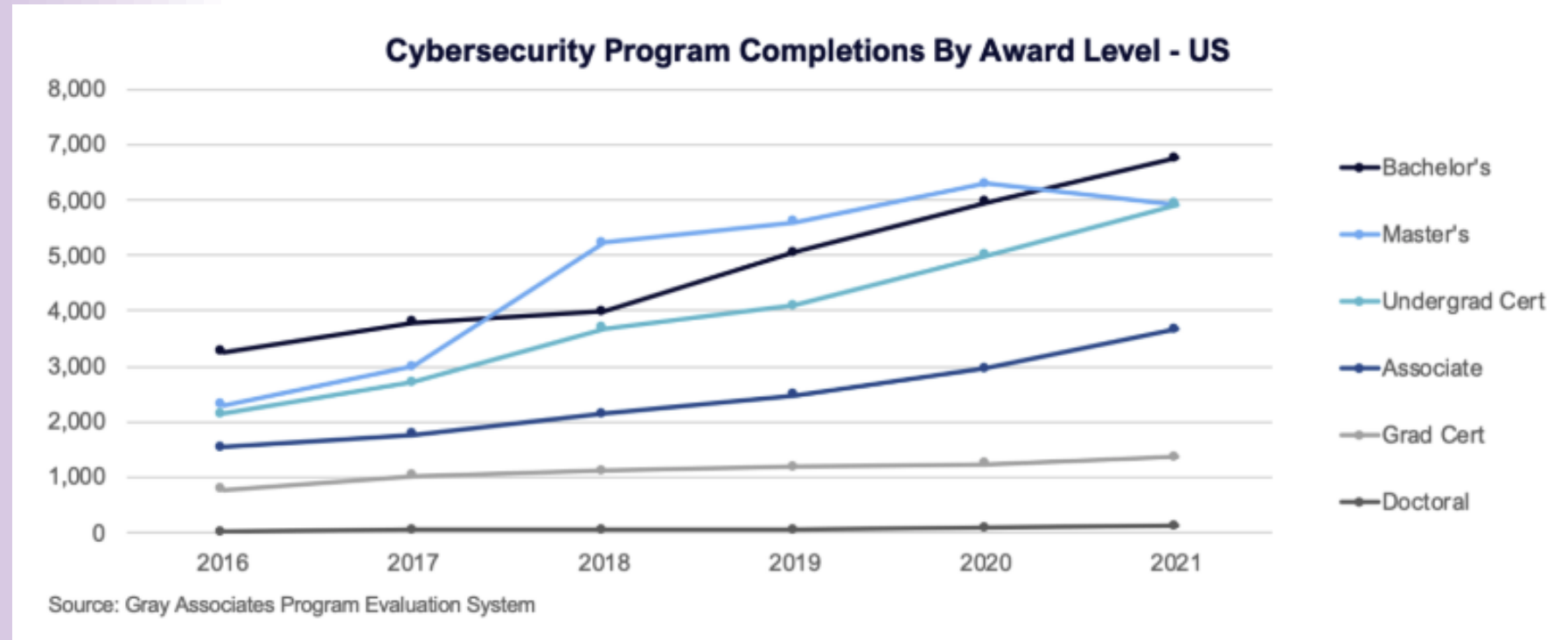
448,033

Cybersecurity
Job Openings
in the US



The Graduate Pipeline is not Meeting the Demand

In 2021, **23,746** cybersecurity students graduated in the US.




Tech in 2023 saw
widespread layoffs

110 cybersecurity
companies impacted





Recruiters Reveal a Skills Gap with Commercial Tools

 SpaceX

Security Analyst II (Detection and Incident Response)

Hawthorne, CA · Reposted 1 week ago

 \$95K/yr - \$115K/yr · On-site · **Full-time** · Entry level

 1,001-5,000 employees · Aviation and Manufacturing

Security Analyst II (Detection and Incident ...

SpaceX · Hawthorne, CA (On-site) [Apply](#) [Save](#)

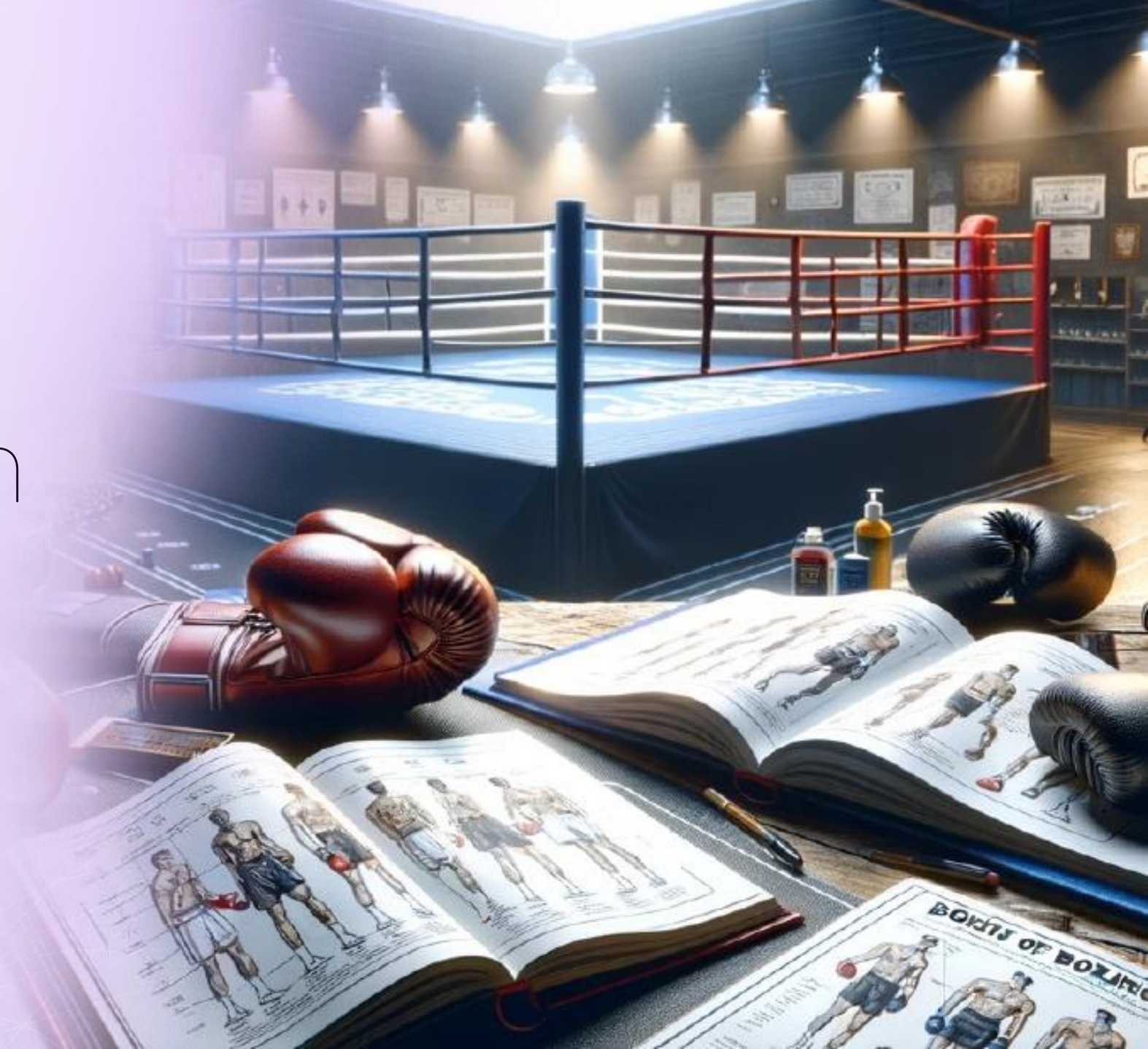
Basic Qualifications

- Bachelor's degree in cybersecurity, computer science, engineering, information technology, or other STEM discipline; OR 2+ years of professional experience in information security in lieu of a degree.
- Experience with operating system auditing for Linux, Windows, or macOS platforms.
- Experience with network and host-based collection tools.

Preferred Skills And Experience

- Understanding of classic and emerging threat actor tactics, techniques, and procedures in both pre- and post-exploitation phases of attack lifecycles.
- Understanding of incident response processes.
- **Experience using Elastic, Splunk and/or other SIEMs.**
- Experience with scripting language(s) for the purpose of security operations and automation.
- Experience with reverse engineering, C2 exploitation, and broader system/network forensics.
- Security community contributions (blog posts, conference talks, CTFs, tool development, etc.).
- Knowledge of cloud infrastructure and cloud security.
- SANS/GIAC, OSCP or similar certifications.

Learning boxing from a Book?

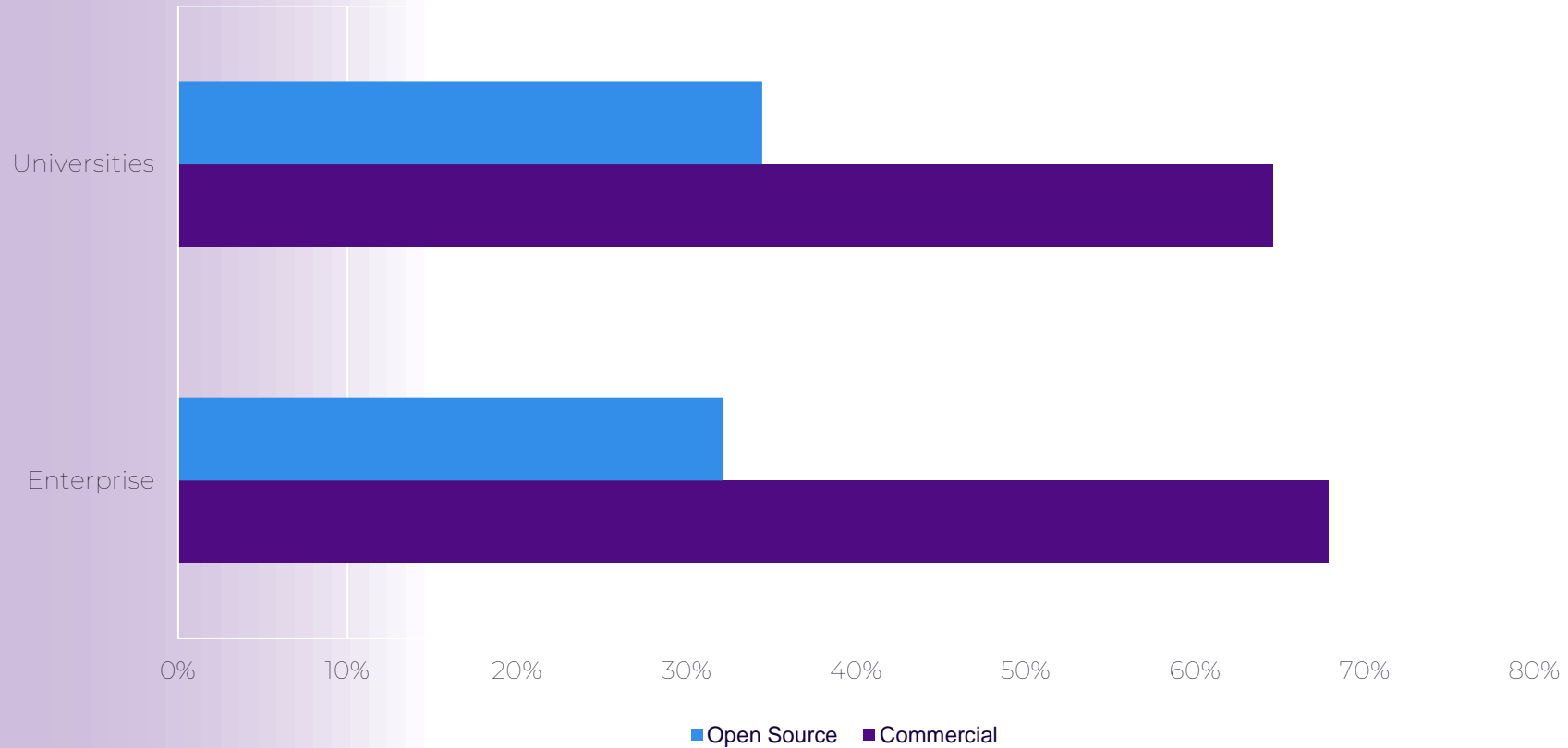


What one
million hours
of cyber drills
has taught us

1,000,000.

Commercial Tools are in Demand

Commercial Tools VS. Open Source for Universities and Enterprises



The Next Generation Cybersecurity Resume

Graduates from Universities with a Cyber Range

86%

Find jobs within
6 months*

X2

Probability of
promotion in year 1*

+10%

Earn above average
starting salary*

+60%

Increased student
enrollment*



**OLIVIA
SANCHEZ**
Cybersecurity Graduate

CONTACT

- +123-456-7890
- hello@reallygreatsite.com
- 123 Anywhere St., Any City

CERTIFICATIONS

- COMPTIA Security+
- Certified Ethical Hacker (CEH)

SOFT SKILLS

- Continuous Learning
- Team Collaboration
- Problem Solving
- Negotiation
- Critical Thinking
- Communication

LANGUAGES

- English
- French
- Spanish

ABOUT ME

Highly motivated cybersecurity graduate seeking an entry-level position. Fast learner with a passion for protecting digital assets and continuous development.

EDUCATION

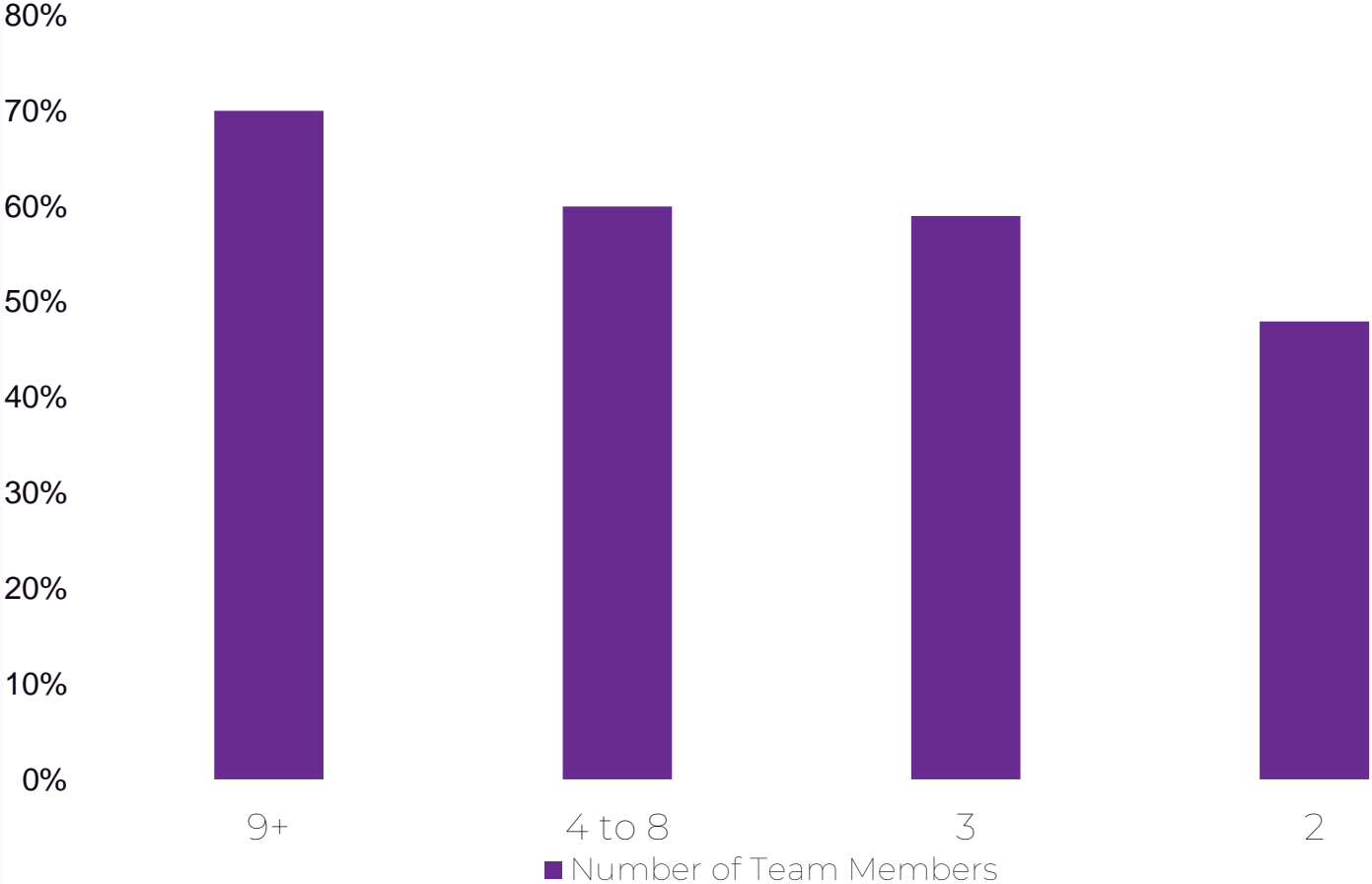
- Texas University 2020 - 2023
- Bachelor of Science in Cybersecurity**
- Graduated September 2023


Topic	Hands-On Time (Hours)	Performance
Security tools		
Splunk SIEM	16	A
Cisco Firewall	32	B+
Microsoft Sentinel	16	A
Cloud Infrastructure		
AWS	10	B+
Azure	5	A
Attack Vectors/Skills		
Phishing	4	A
Social Engineering	3	B+
Malware Analysis	4	C
Live-Fire Team Exercises		
Insider Threat	4	B
Ransomware	8	A
APTs	4	A

Better Results with Teamwork

The #1 Reason
for Failures:
Poor Communication

The Bigger the Team the Higher the Average Score





Case Study: Security Training for Developers and IT Admins

Learn the Essentials of Cyber Range Education



Cyber Range Workshop for Faculty
Find out more at Booth #4!

Caleb Barlow, CEO, Cyberbit

[Youtube.com/calebbarlow](https://www.youtube.com/calebbarlow)

[Linkedin.com/in/calebbarlow](https://www.linkedin.com/in/calebbarlow)