



Cyber Security Group RSO



Context

Washington State University Cybersecurity Student Club uses competitions to motivate and encourage learning of cyber security concepts, skills and collaboration in a hands on, interactive way.

Cybersecurity Club

- The club hosts periodic meetings to teach members about cybersecurity concepts. Meetings led by members are focused on a specific cybersecurity topic, and often involve hands on exercises.
- Club officers organize and find competitions for students to compete in and register teams.
- Many VICEROY students and MAVEN graduates are members of the club and use skills they learned during the internship in the competitions with the club.



WSU CyberCoug at Spokane Mayors Cup 2024

Benefits of Competitions

- Students learn both hard and soft skills.
- Students are exposed to new cybersecurity domains they may not be familiar with and are motivated to learn new skills to help further their team's progress.
- Students learn importance of effective team organization and leadership to produce high functioning cyber teams.

Capture The Flag (CTF)

- Students work across a wide variety of domains to solve challenges, such as encryption breaking, reverse engineering, web exploitation to retrieve a 'flag', a short string to gain points and climb the leaderboard.

Simulated Exercises

- Students work together to approach a pre-designed cyber exercise that simulates a real-world mission, requiring teams to plan and execute a mission, then debrief to adapt to challenges they may have faced.



Cybersecurity Club lesson on networking and packet analysis

Events

- VICEROY Dr. Boom
- Blue Edge Concord Dawn
- Spokane Mayors Cup
- National Cyber League
- Pacific Rim Collegiate Cyber Defense Competition
- CyberForce Competition

Club Leadership

President – Zachary Werle
 Vice President – Alexander Hagood
 Treasurer – Guinevere Fish
 Outreach Officer – Adam Caudle
 Logistics Officer – Alec Barran
 Instructional Lead - Justin Van Der Sluys
 Faculty Advisor – Dr. Assefaw Gebremedhin

Acknowledgements

Some of the competitions were supported by funding for the VICEROY Northwest Institute for Cybersecurity Education and Research (CySER) provided by The Office of the Undersecretary of Defense for Research and Engineering, in collaboration with the Air Force Research Laboratory and Griffiss Institute.

