ORTSOC

Oregon's Cybersecurity Teaching Hospital

OVERVIEW

Mission:

The Oregon Research and Teaching Security Operations Center (ORTSOC) is dedicated to addressing the shortage of skilled cybersecurity professionals and providing vital security solutions to underserved entities in our region. We are committed to fostering an environment of learning, research, and practical experience for students and faculty at Oregon State University, while simultaneously enhancing the security posture of local government agencies, K-12 schools, smaller higher education institutions, and nonprofit organizations.

ORTSOC's Three Pillars:

1. **Education & Mentorship**: Students gain hands-on experience in a security operations center, mentored by industry experts.

2. **Community Support:** We help regional underserved entities strengthen their cybersecurity defenses with tailored solutions.

3. **Research & Innovation**: As a living laboratory, ORTSOC drives advancements in security monitoring, detection, and incident handling.

   Together, we are bridging the cybersecurity gap and paving the way for a more secure and connected future.

DAY-TO-DAY WORK

At ORTSOC, students engage in a collaborative learning environment, participating in a clinical rotation model. This approach allows exposure to all aspects of cybersecurity operations, with roles rotated among students throughout the year. These roles include tier 1 and 2 analysts, threat intelligence, project management, and security engineering, ensuring well-rounded skill development.

Students work together to create new tooling, monitor client networks, and respond to incidents. Tier 1 and 2 analysts collaborate to address potential security incidents, while threat intelligence analysts produce daily cybersecurity news. Security engineers refine tooling, enhancing our capabilities. This team-oriented approach delivers comprehensive education and effectively serves clients' cybersecurity needs.

INTERNAL PROJECTS

Students in the ORTSOC engage in diverse projects aimed at enhancing internal infrastructure and assisting clients with various cybersecurity needs.

- Onboarding: When we acquire a new client, students analyze their network and infrastructure to seamlessly integrate them into our systems.
- Maturity Assessment: We provide maturity assessments for existing clients, helping them improve their security controls.
- Ticket Automation: In the event of an incident, a ticket is created to track and share information with fellow students, ensuring efficient collaboration.
- Sensor Tuning: After deploying sensors, students fine-tune them for better monitoring and optimized effectiveness.

OUR TEAM
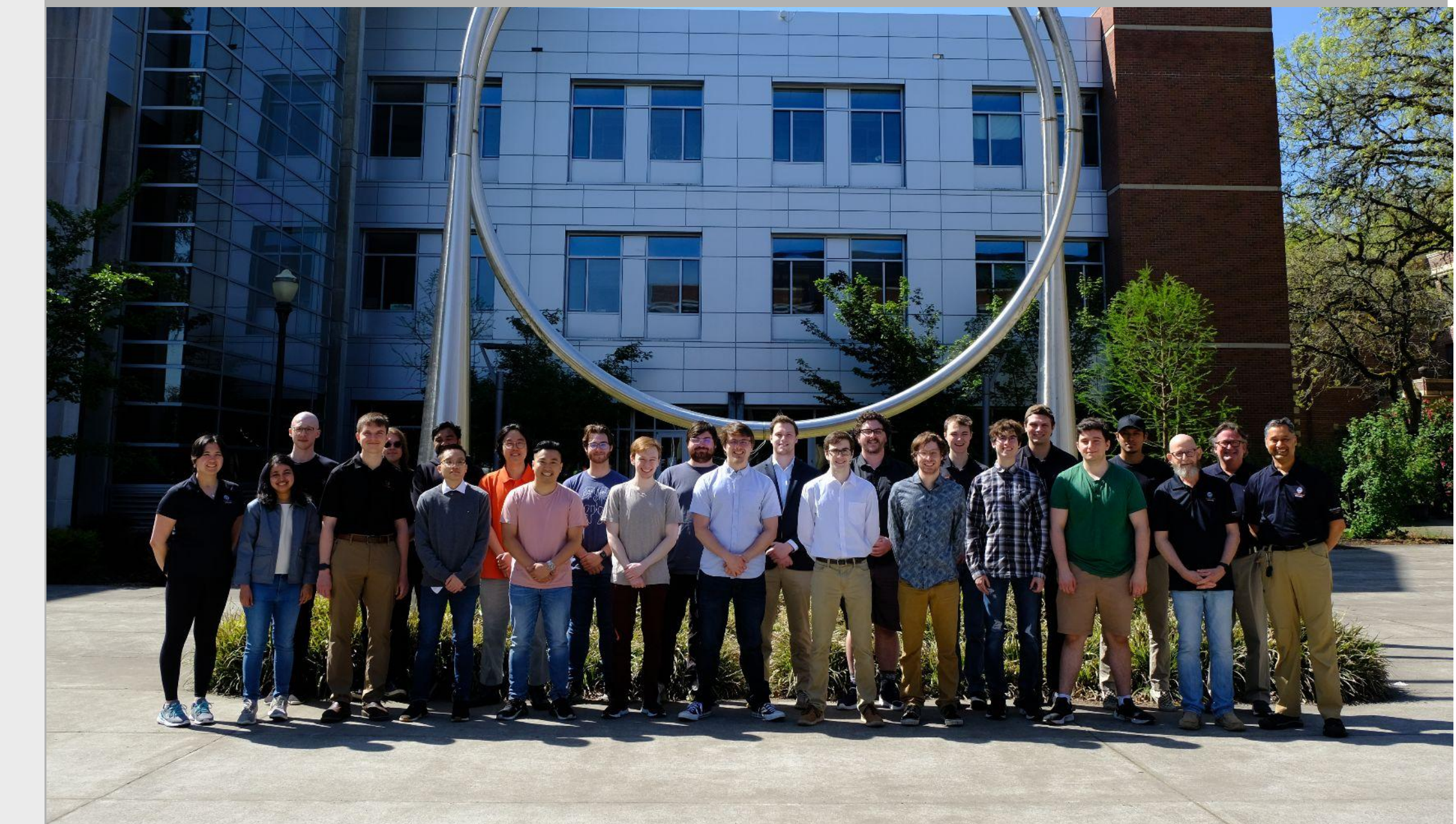
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