



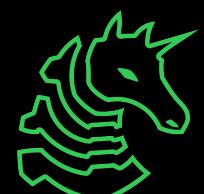
FA2024 Week 00 • 2024-08-29

Introduction

SIGPwny Admin Team

Overview

- What is SIGPwny?
- How to join SIGPwny?
- Who is SIGPwny?
- Women in CyberSecurity @ Illinois
- Ground Rules
- What does SIGPwny do?



What is SIGPwny?

Why were we yelling at you at Quad Day?



SIG • Pwn • y



Special
Interest
Group



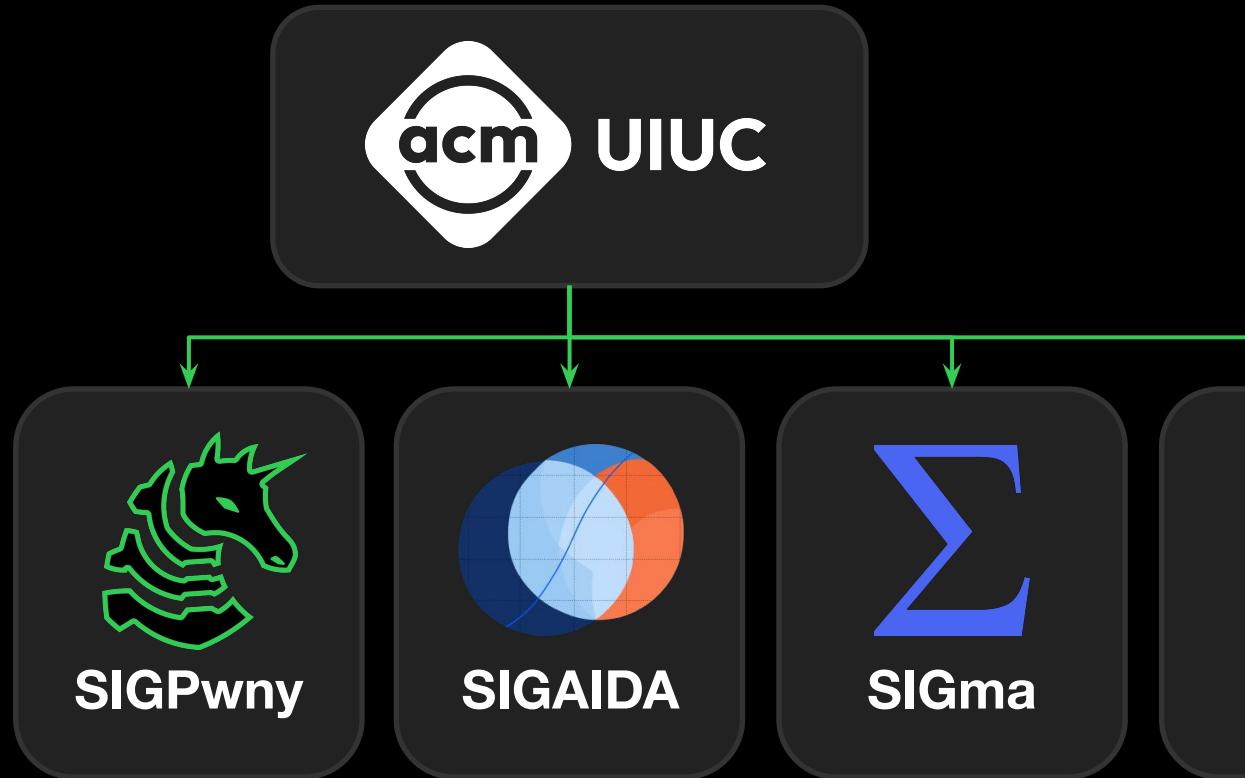
Hack
or "own"
(slang)



For
cool
logo

About Us

- Computer security/hacking club at UIUC
- SIGPwny is under the Association of Computing Machinery chapter at UIUC
- Largest Special Interest Group within ACM@UIUC



SIGPwny is just one of many SIGs...
but it's the best one



How do I join SIGPwny?

You already have!

sigpwny.com/discord to join our Discord server

sigpwny.com/auth to receive the **@UIUC** role



Who is SIGPwny?



Admin Team



Minh Duong

@whiteHoodHacker
Security Research @ MSFT



Pete Stenger

@spicypete
VR/RE Intern @ Battelle



Anusha Ghosh

@0xk411
AI Hacking @ NVIDIA



Akhil Bharanidhar

@akditch
SWE Intern @ Pinterest



Emma Hartman

@lukewarmdaisies
SecEng Intern @ Microsoft



George Huebner

@shorden
Research @ UIUC



Jake Mayer

@henopied
STEP Intern @ Google



Julius White V

@jcw515awsm
SWE Intern @ Meta



Richard Liu

@rliu
VR/RE Intern @ Battelle



Ronan Boyarski

@ronanboyarski



Sam Ruggerio

@surgdev
VR/RE Intern @ Battelle



Helper Team



Henry Qiu
@CBCicada



Juniper Peng
@32121
DV Intern @ Synaptics



Adarsh Krishnan
@rbowdarsh



Kyler Norr
@kylernorr8



Louis Asanaka
@louis_2
SWE Intern @ Fetch



Cameron Asher
@bigkirbs



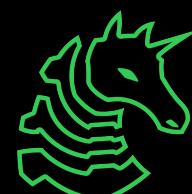
Emma Shu
@buttermilkb
SWE Intern @ NVIDIA



Sagnik Chakraborty
@quaternion_
Arch/DevOps @ Cognizant



Nikhil Date
@tensor1190



Women in CyberSecurity



Bring together those interested in cybersecurity



Share knowledge, experience, networking and mentoring



Host workshops, networking opportunities, and tech talks



Beginner-friendly web dev + security projects





Connect with us!



Join our Discord

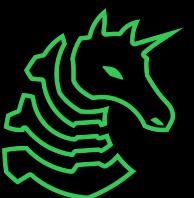
Get meeting updates

Sign up for emails

Board Applications!



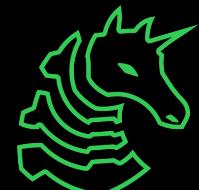
Now, some ground rules.



Code of Conduct

1. Be respectful.
2. Be inclusive.
3. Nothing illegal.
4. Don't cheat.
5. No NSFW or suggestive content in Discord.
6. Don't spam in Discord.
7. Use common sense.

The full Code of Conduct is available at sigpwny.com/rules.
Report misconduct to sigpwny.com/report.



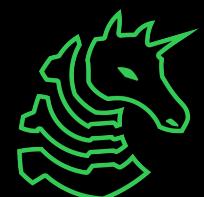
You Will:

- Learn how to think with an adversarial mindset
- Explore the subcategories of security
- Develop practical security skills
- Find a community of friends and colleagues



You Will Not:

- Learn how to hack your friend's Instagram account!
- Become a 1337 hax0r (praise anonymous!!1!!)
- Break into computers without explicit permission
- Learn how to hack overnight



The "Don't Get Arrested" Slide

Computer Fraud and Abuse Act (CFAA)

- Attacking "protected" computers
- Anywhere between a fine and **TWENTY** years in jail
- If you don't have **EXPLICIT** permission, **DON'T DO IT**



Survey!

Please fill out this survey so we can plan our semester for you!

sigpwny.com/survey



What does SIGPwny do?



Learn

Compete

Build

Learn

Meetings

Pwny CTF

Compete

CTF Team

Purple Team

Embedded Team

Build

UIUCTF

Fall CTF

Meetings

Thursdays, 6-7 PM

Siebel CS 1404

- 15 minutes talking
- 45 minutes doing

Sundays, 2-3 PM

Siebel CS 1404

- 1 hour of extended lecture

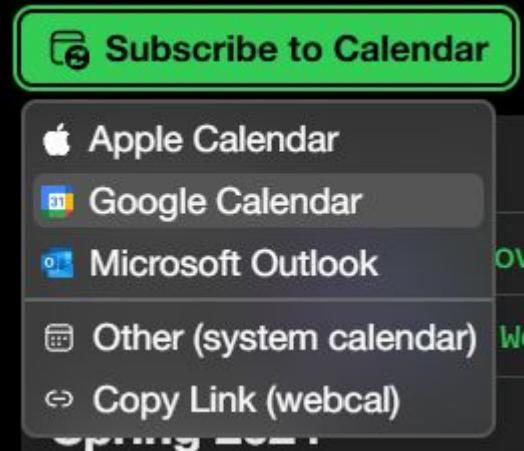
All our meetings are at:

<https://sigpwny.com/meetings/>



Meetings

- Subscribe to our calendar!
- Add from sigpwny.com/meetings or directly using these links:
 - Apple Calendar: sigpwny.com/applecal
 - Google Calendar: sigpwny.com/gcal
 - Microsoft Outlook: sigpwny.com/outlook
 - Webcal: sigpwny.com/cal



< Aug 29 Event Details

Introduction

Siebel Center for Computer Science
201 N Goodwin Ave, Urbana, IL 61801, United States

Zoom Join Open

Thursday, Aug 29, 2024
from 18:00 to 19:00

17:00	
18:00	Introduction Siebel Center for Computer Science...
19:00	
20:00	

Calendar ● SIGPwny

Alert Time to Leave ▾

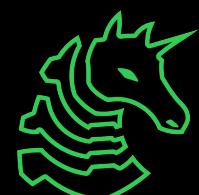
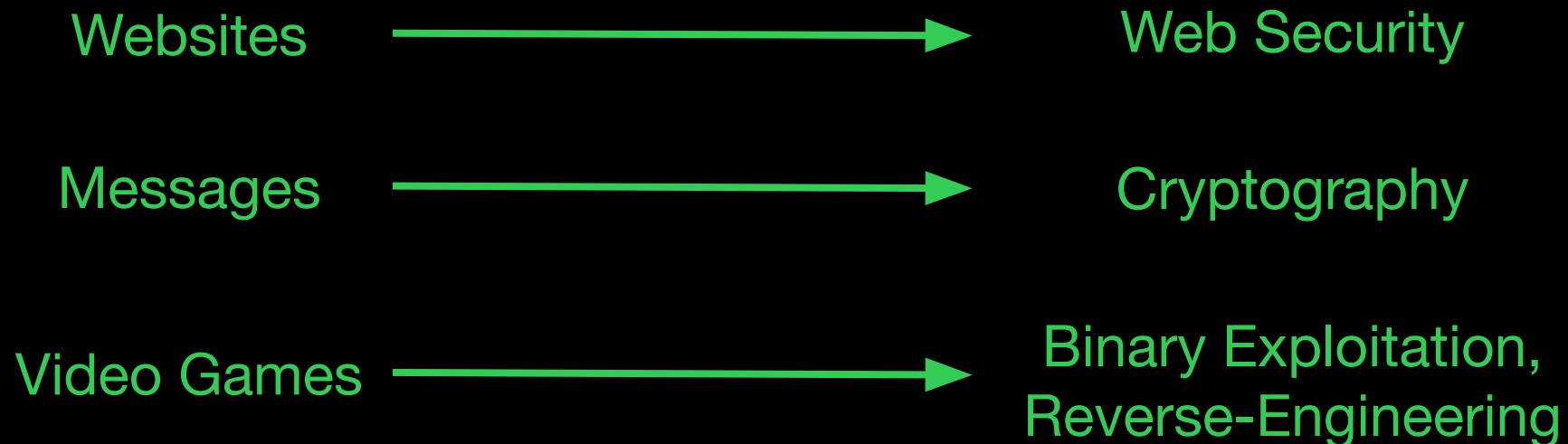
Notes
<https://sigpwny.com/meetings/fa2024/2024-08-29/>

Location: Siebel CS 1404

Unsubscribe from This Calendar

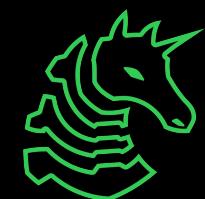
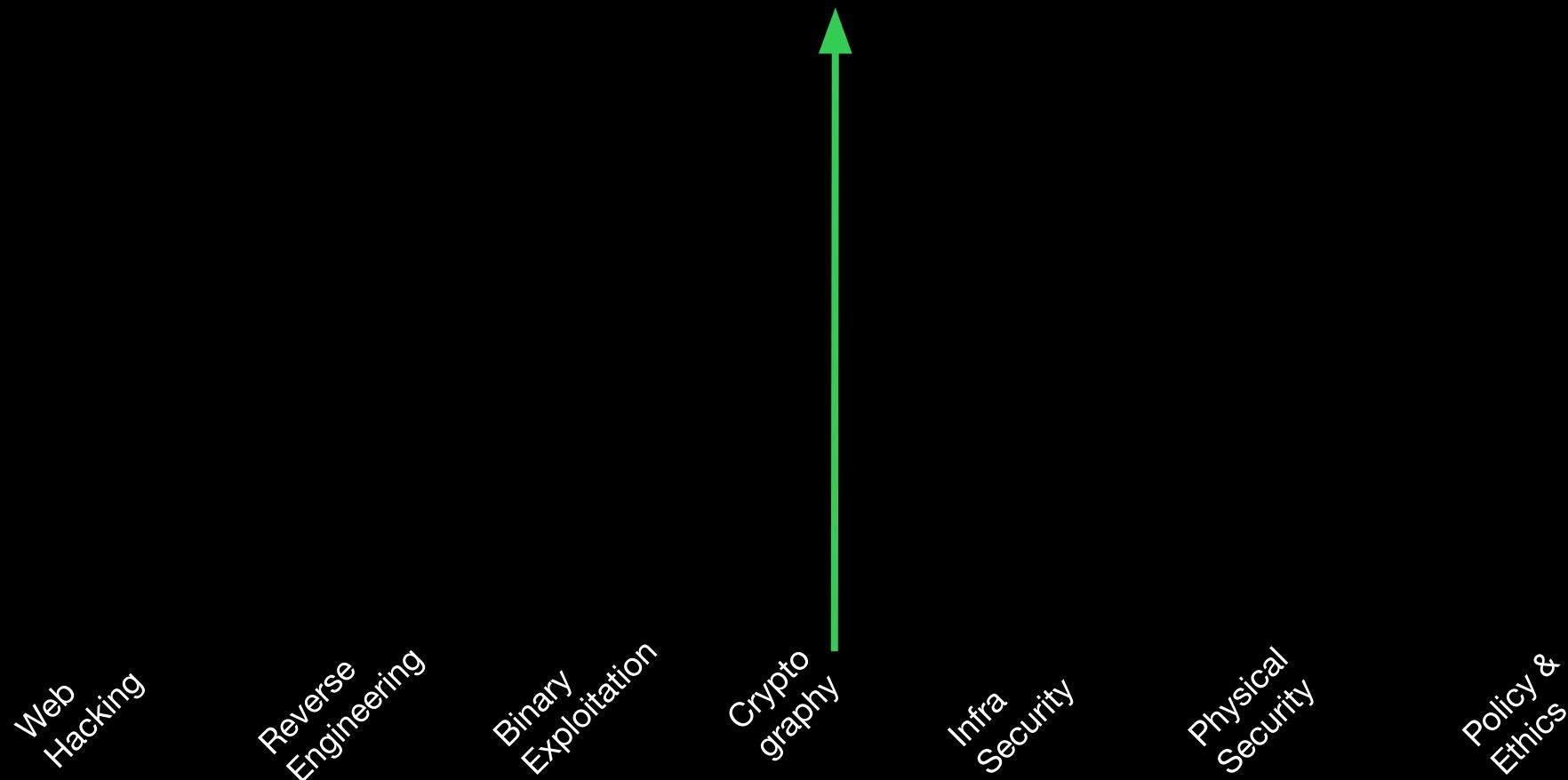
Teaching Philosophy

Cybersecurity is needed for every aspect of computer science!



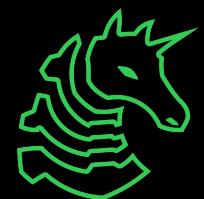
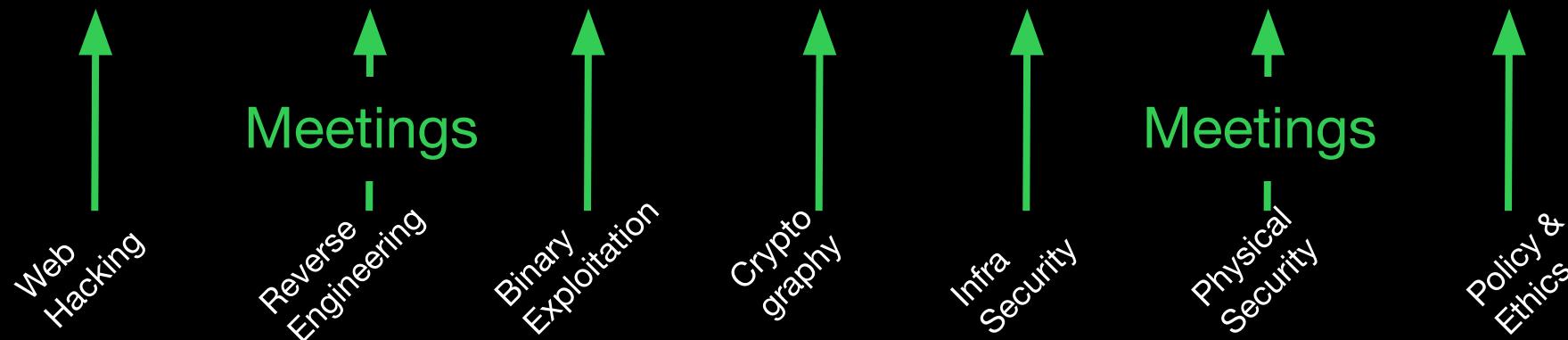
Teaching Philosophy

SIGPwny's goal is NOT to make you a master in any field...



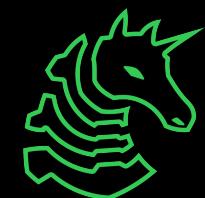
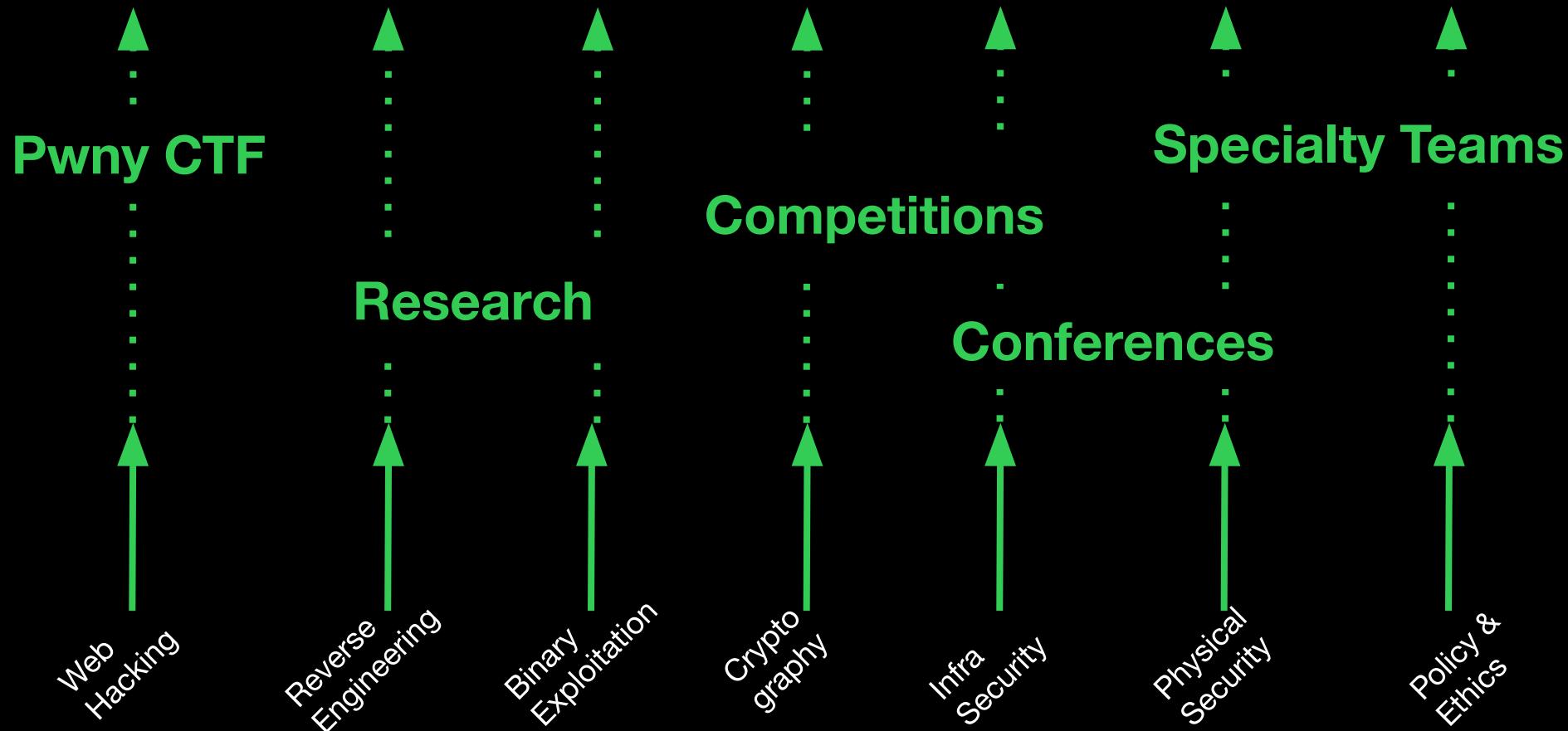
Teaching Philosophy

... but it is our goal to teach you the basics of every field...



Teaching Philosophy

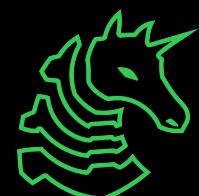
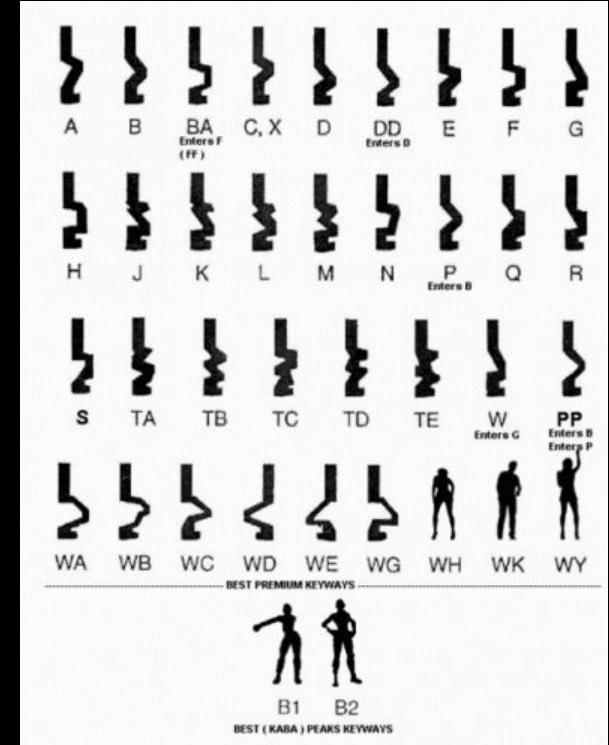
... and provide opportunities for **you** to master your interests!



Lockpicking Socials

- Pick locks and hang out twice** a month
- All levels of lockpicking experience welcome
- Beginner locks and picks provided, otherwise BYOL

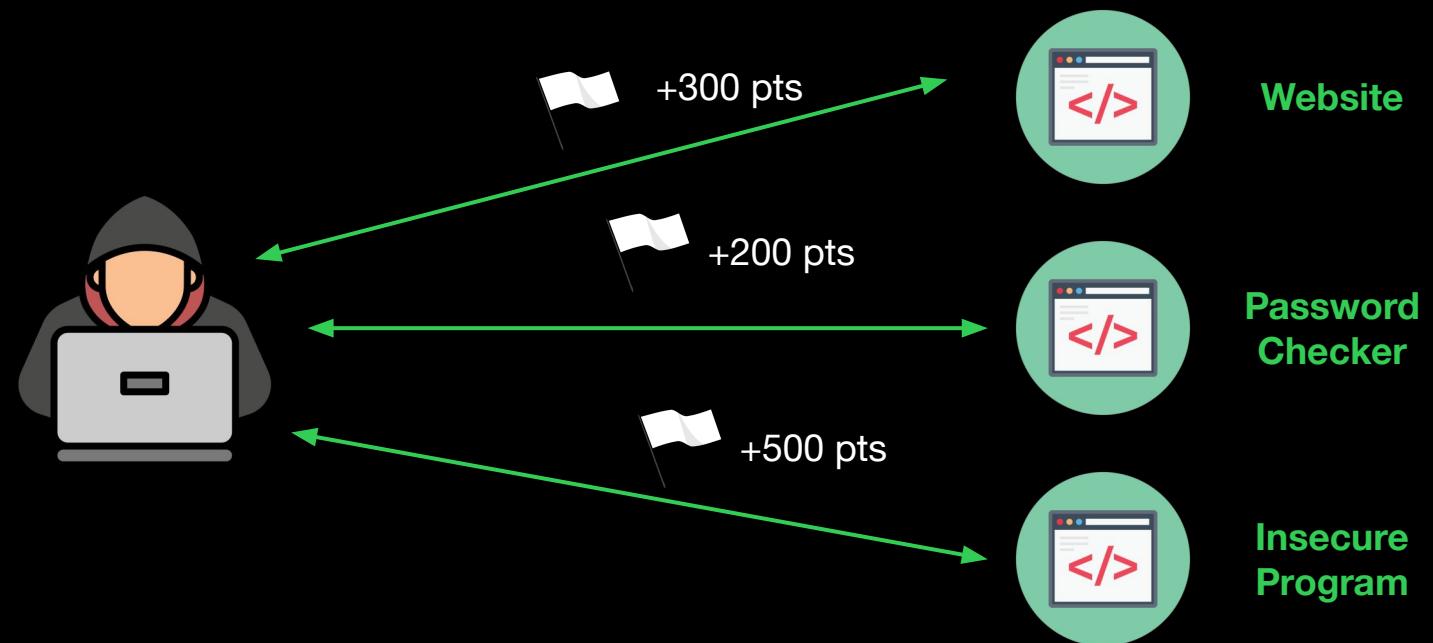
**timing may vary



What is Capture the Flag (CTF)?



- A CTF is a cybersecurity competition
- Compete against other teams
- "Jeopardy style" - hack the most (and hardest) things to win

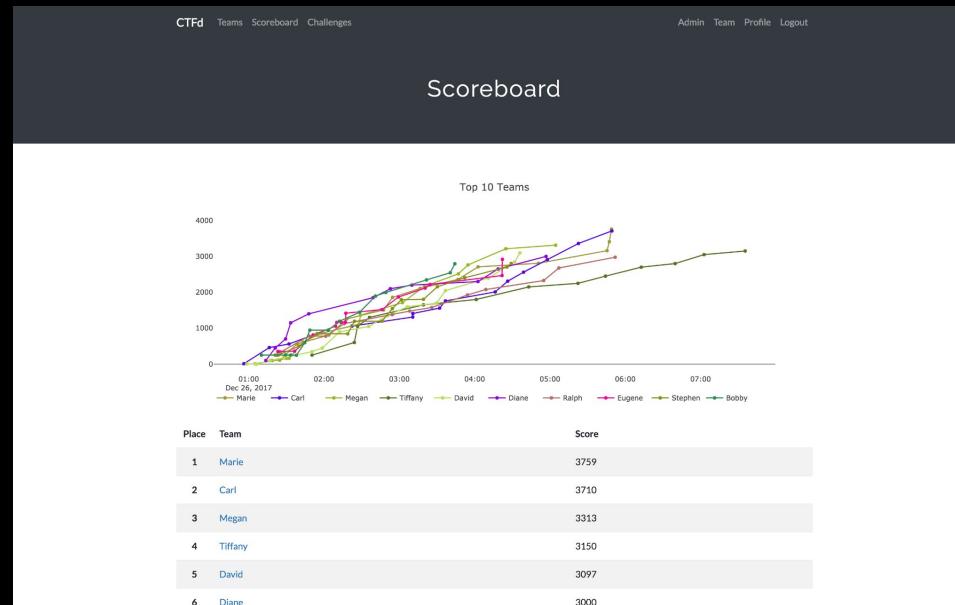


Pwny CTF

- The best way to practice your security knowledge!
- Pwny CTF is our internal, 24/7/365 CTF with a leaderboard to compete with friends!

ctf.sigpwny.com

Sign up now!



Learn

Meetings

Pwny CTF

Compete

CTF Team

Purple Team

Embedded Team

Build

UIUCTF

Fall CTF

CTF Team

- We participate in various CTFs hosted by other teams
- CTFtime is a global leaderboard that tracks team placement in CTFs and provides ratings



CTF TIME

Overall rating place: **410** with **49.859** pts in 2018

Country place: **48**

Overall rating place: **300** with **77.673** pts in 2019

Country place: **31**

Overall rating place: **136** with **174.389** pts in 2020

Country place: **19**

Overall rating place: **80** with **243.217** pts in 2021

Country place: **12**

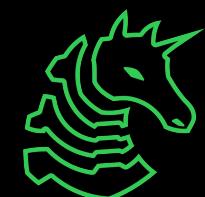
Overall rating place: **48** with **346.020** pts in 2022

Country place: **6**

Overall rating place: **107** with **282.130** pts in 2023

Country place: **11**

overall rating place: **1** with **9999** pts in 2024
country place: **1**



CTF Team

- Everyone is welcome to join CTF team!
- Our normal Thursday/Sunday meetings prepare you for CTFs!
- Most CTFs are usually a weekend long - we will have a dedicated room for people to collaborate and solve challenges. Plus, free food :D

How to join CTF Team:

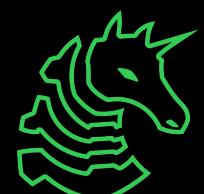
- Use the command `/ctfs optin` in our Discord. You need to have the `@UIUC` role first!



Purple Team

NEW!

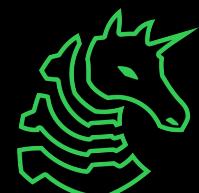
- **Red teaming** - break systems
 - Find problems before threat actors find them
- **Blue teaming** - protect systems
 - Fix problems before threat actors take advantage of them
- **Purple teaming** is the intersection of these two fields!



Purple Team

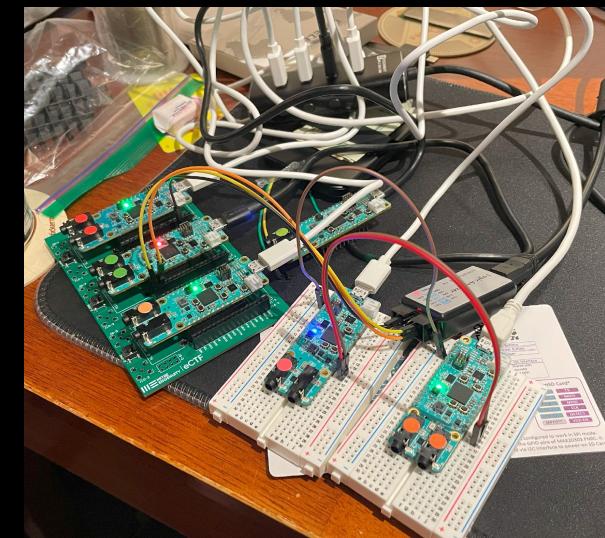
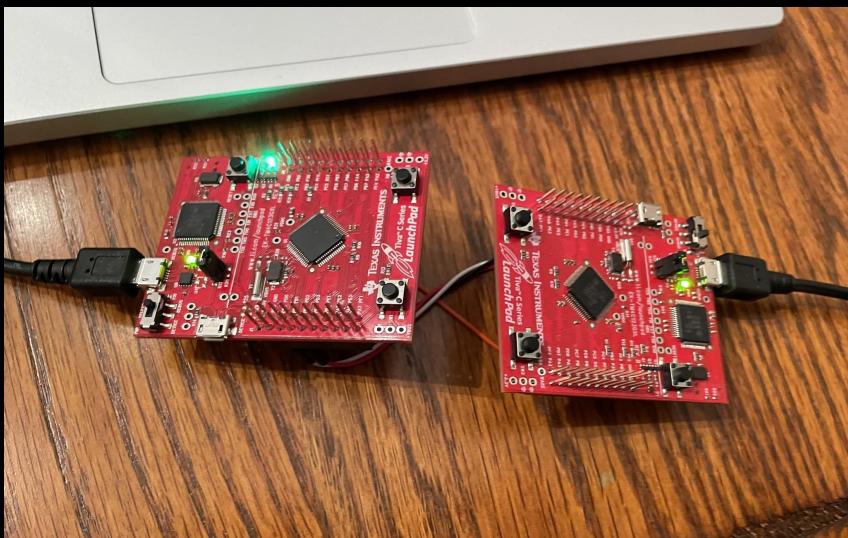
NEW!

- We will be running separate "bootcamp" meetings to train for the Collegiate Cyber Defense Competition (CCDC)
 - Tentatively: Tuesdays after 5 PM and Thursdays at 7 PM (after normal SIGPwny meeting)
- Advised by Prof. Casey O'Brien and John Bambenek
- If you have done CyberPatriot or similar competitions in high school, or have any experience with system hardening or securing services, reach out to us!
- ronanpb2@illinois.edu
- mkhala6@illinois.edu



Embedded Team

- We focus on attacks against embedded systems!
 - Microcontrollers, firmware bugs, side-channel analysis, fault injection!
- We work heavily with ARM assembly, C, and Rust (and will teach you!)



Embedded Team

- Our main competition is eCTF in the spring semester
- Starting this fall semester, we will be holding weekly/bi-weekly lab activities to find and replicate bugs in assorted devices!



eCTF 2023 - 3rd Place

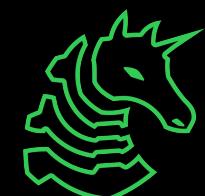


eCTF 2024 – 2nd Place



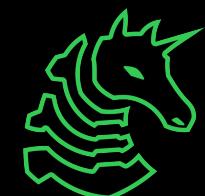
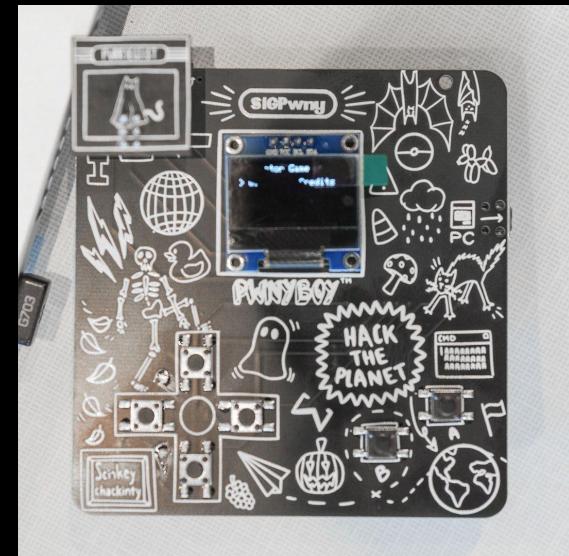
UIUCTF (Spring/Summer 2025)

- Our global CTF event for the international security community!
- Design challenges for hundreds of people to solve
- Show off what you've learned and contribute to security education



Fall CTF 2024

- Save the date: September 21st!
- Fall CTF is a beginner CTF that SIGPwny runs exclusively for UIUC students and made for people new to cybersecurity!
- Free food, shirt, PCB badge, and prizes!



Learn

Meetings

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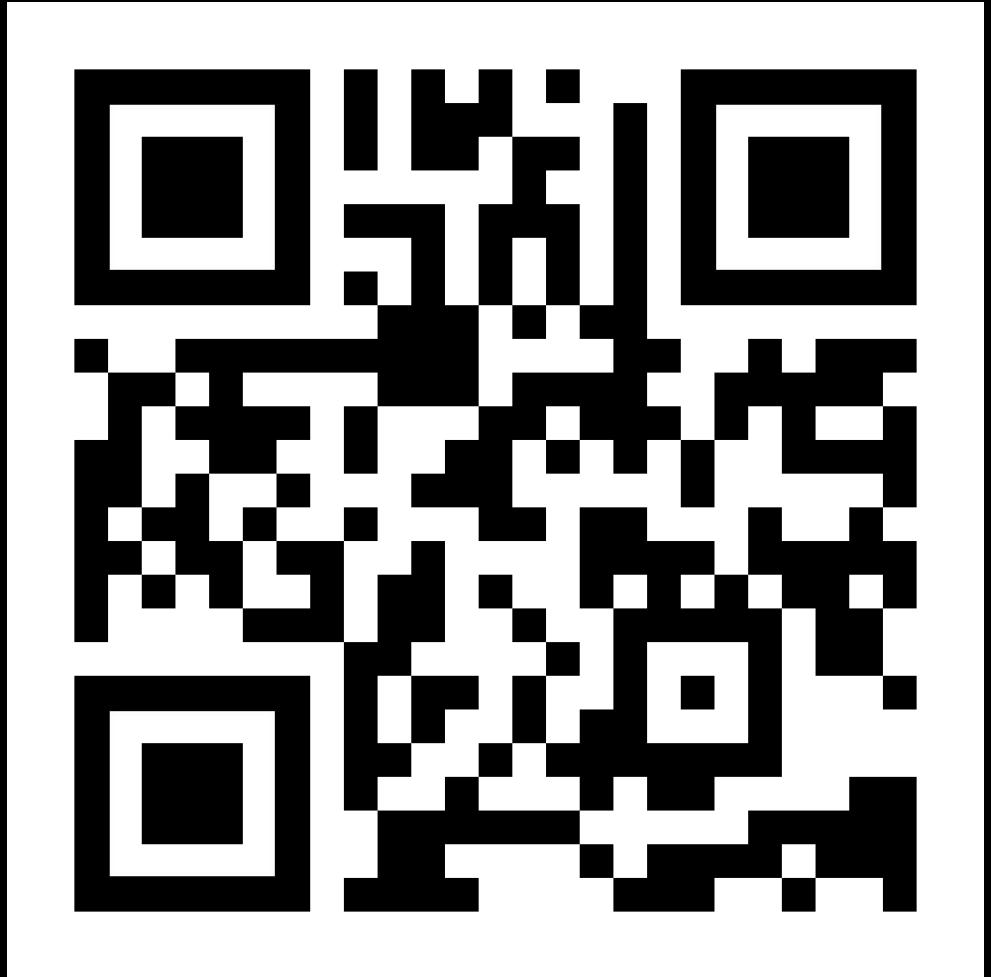
UIUCTF

Fall CTF

Survey!

Please fill out this survey so we can plan our semester for you!

sigpwny.com/survey



Next Meetings

2024-09-01 • This Sunday

- Bowling Social!
- 6-8 PM @ Illini Union Rec Room

2024-09-05 • Next Thursday

- **No meeting!**
- ACM Open House

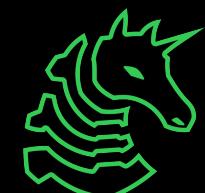
2024-09-08 • Next Sunday

- Setup Meeting + Intro to Terminal
- Bring your laptop!

Join our Google Calendar!
sigpwny.com/gcal



sigpwny.com/discord



Thank you! Any questions?

Meeting content can be found at
sigpwny.com/meetings.

