FA2022 Week 00

SIGPwny Info Meeting

SIGPwny Admin Team



Table of Contents

- What is SIGPwny
- What is Computer Security
- whois SIGPwny
- How to Join SIGPwny
- What We Will/Won't Do
- Code of Conduct
- Opportunities



What is SIGPwny?

Why were we yelling at you at Quad Day?



SIG

Special

Interest

Group

Pwn

Popular computer security term

Like 'own'

y

So we can have the cool unicorn logo



What is SIGPwny?

- Computer Security Club at UIUC
- Largest Special Interest Group in ACM@UIUC



Run by Undergraduates

Open to everyone



Two Meetings/Week!



Traditional Thursdays

15 Minutes Talking, 45 Minutes Doing

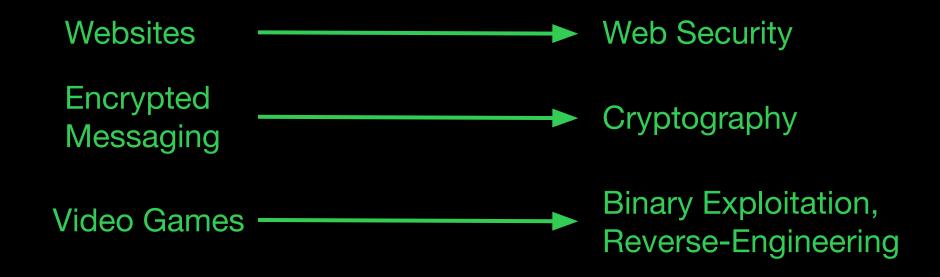


Seminar Sundays

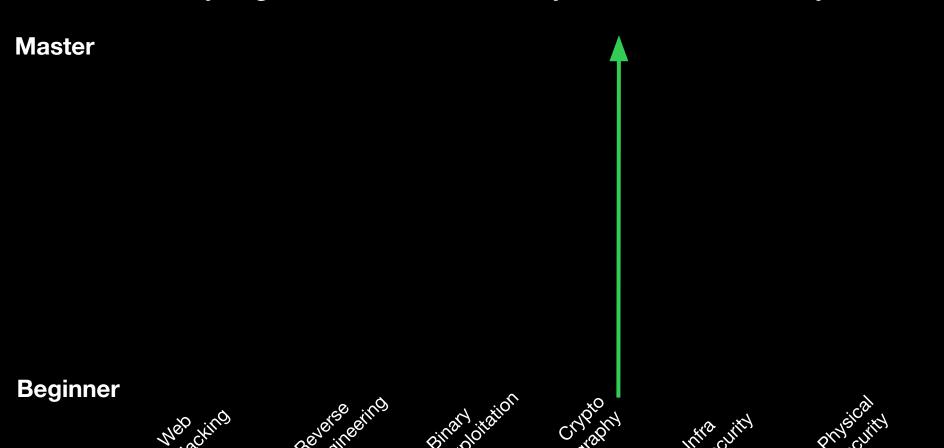
1+ hours talking, many hours doing



Cybersecurity is needed for every aspect of CS: lots of fields!

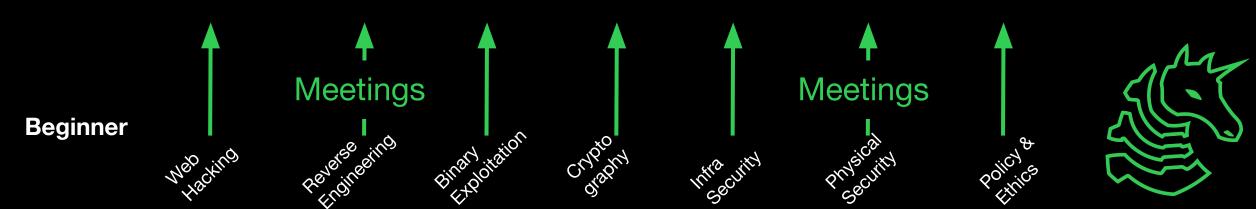


SIGPwny's goal is NOT to make you a master in any field...

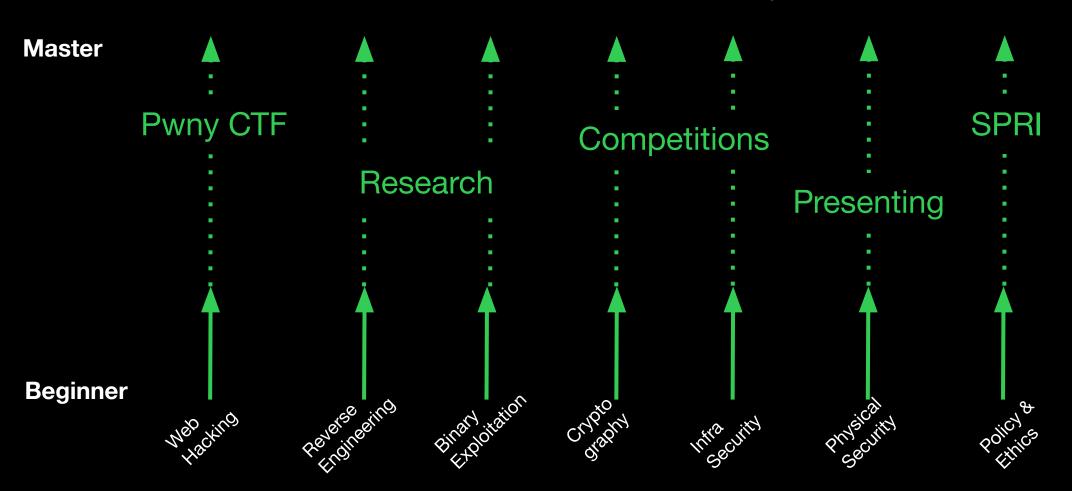


... but teach you the basics of every field

Master



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





What is Computer Security?

What is this club actually talking about?



Computer Security 101

- Massive, growing industry
 - US has 965,000 unfilled cybersecurity roles[1]
 - 31% job growth rate over next 10 years[1]
- Breaking technological systems (computers)
 - Find problems before malicious actors do
- Protecting technological systems
 - Fixing vulnerabilities before malicious actors use them



whois SIGPwny





Admins

Name	Tag	Role	What we did this summer
Nathan	tow_nater	President	SWE @ Meta
Thomas	Sonicninja	President Emeritus	Deep Learning and Network Simulation @ [DATA EXPUNGED]
Anusha	helloca	Admin	Al @ Microsoft
Anakin	Spamakin	Admin	SWE @ CME Group
Emma	lukewarmdaisies	Admin	SWE @ JPMorgan
Minh	WhiteHoodHacker	Admin	Application Security @ Trail of Bits + DEF CON speaker
Hassam	Heasummn	Admin	SWE @ Amazon
Pete	spicypete	Admin	Firmware exploitation @ US GOV

Helpers

Name	Tag	What we did this summer
Husnain	Husnain	UIUCTF Challenge Dev
Kevin	kmh	Static Analysis @ Meta
Michael	Random Object No. 79	UIUCTF Challenge Dev
Noelle	crawfish	?? @ Peak6
Richard	richyliu	Fuzzing development @ GSoC
Sam	Surg	SWE @ Amazon + UIUCTF Challenge Dev



Alum

Name	Tag	What we did this summer	
Ankur	arxenix	Security @ Leviathan	
Chris	2much4u	Vulnerability Research @ REDLattice	
Faisal	Chief	Cyber Risk @ Deloitte	
lan	ian5v	???	
Kuilin	kuilin	PhD @ sslab (Georgia Tech)	
Ravi	Ravi	PhD @ CSAIL (MIT) + DEF CON Speaker	
[REDACTED]	[REDACTED]	[REDACTED] @ NSA	



How do I join SIGPwny?

You already have!

sigpwny.com/auth for access to @uiuc role in Discord



What we will and won't do



You will

- Learn how to think with a security/adversarial mindset
- Learn how to look for vulnerabilities in systems
- Explore the subcategories of security
- Develop practical security skills
- Find a community of friends and colleagues



You won't

- Hack your friend's facebook accounts!
- Be a 1337 hax0r (praise anonymous /s)
- Break into computers without explicit permission
- Learn hacking super quickly or easily



WARNING before We go any further!

(The "Don't Get Arrested" Slide)

- https://www.law.cornell.edu/uscode/text/18/1030
 - Read it!
- CFAA TLDR
 - Computer Fraud and Abuse Act
 - Attacking "protected" computers
 - Anywhere between a fine and **TWENTY** years in jail.
- If you don't have EXPLICIT permission to break into it, DON'T
- We are NOT lawyers and CAN'T give you legal advice

YOU WOULDN'T

Marcus Hutchins, Controversial Hacker who saved the internet, got arrested for past crimes.

We are NOT suggesting, telling, or implying you should actually do these things. By participating in this club, you agree that your actions are your own and you will deal with the consequences.

Code of Conduct



Code of Conduct

- 1. Be respectful. Keep your messages civil and don't bully, troll, or harass others.
- 2. Be inclusive. Racist, sexist, anti-LGBTQ+, and bigoted messages are not tolerated. Promoting people or ideologies that allow these messages are also not accepted.
- 3. Nothing illegal. Do not perform or discuss illegal activities. Do not doxx or reveal sensitive information belonging to others without their permission.
- 4. No NSFW or suggestive content. Nudity or gore is not allowed. If you have to ask, don't post it. Swearing is allowed.
- 5. Don't spam. This includes excessive messages, emojis, images, advertisements, and @mentions.
- 6. Use common sense. The admins have the final say on misconduct and punishments given. This is a catch-all rule.

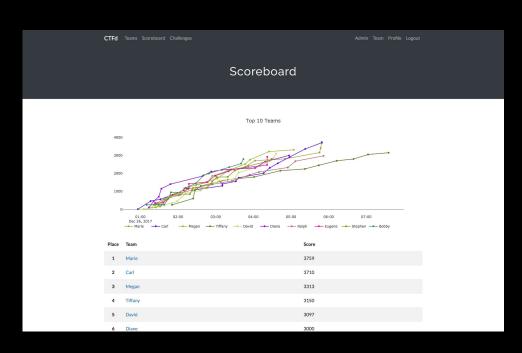
Opportunities



CTF (Capture The Flag)

- The best way to practice your security knowledge!!
- We participate in various CTFs hosted by other teams
- Pwny CTF is our internal, 24/7/365 CTF with a leaderboard to compete with friends!

ctf.sigpwny.com





CTF (Capture The Flag)

CSAW 2022 Qualifiers - September 9th
Come play with one of the best teams in the world!

Fall CTF 2022 - For people completely new to cybersecurity!
Free food + free shirt/pin + thousands in prizes!!

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: 60 with 225.640 pts in 2022

Country place: 10



Research

We work with with NSRG (Network Security Research Group)

- Assist ongoing security research
- OR do an independent research project

Talk to us and watch for future announcements, we will clearly identify research opportunities in the future





Projects

- Pwny CTF and Fall CTF
- UIUCTF
- pwnybot
- Fuzzers
- Network Environment Templates
- Challenge Development Templates (chal.dev)
- Infrastructure for sigpwny.com and SIGPwny servers





UIUCTF 2023



Massive CTF run with 500+ teams, \$5K+ prize money. It's happening, help make it happen.

Stuff that can be done

- Challenge Development
- Theming
- Infrastructure / Web Deb
- Promotion
- Financing





Social Events









Next Meetings

This Sunday: 2022-08-27

- Social event (watch #announcements)
- NO seminar meeting!

Next Thursday: 2022-09-01

- ACM Open House
- NO meeting!

Two Sundays Away: 2022-09-04

- Setup meeting
- Help users get into environments that are ready for security

Questions?

If not lets go get food:)

