

## FA2023 Week 00 • 2023-08-27

SIGPwny Admin Team

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## What is SIGPwny?

Why were we yelling at you at Quad Day?



# SigPwny↓↓↓SpecialTo hackForInterestor "own"coolGroup(slang)logo

#### **About Us**

- Computer security/hacking club at UIUC
- Largest Special Interest Group within ACM@UIUC





"Don't ever talk to me or my child again"

## Who is SIGPwny?



#### **Admin Team**



**Pete Stenger** @spicypete SWE Intern @ NETSCOUT



Anusha Ghosh @0xk411 Al Hacking @ Trail of Bits



Anakin Dey @spamakin ???



**Emma Hartman** @lukewarmdaisies SecEng Intern @ Microsoft



**George Huebner** @shorden Sysadmin Intern @ Red Hat



Hassam Uddin @Heasummn SWE Intern @ IMC Trading



**Julius White V** @jcw515awsm SWE Intern @ State Farm



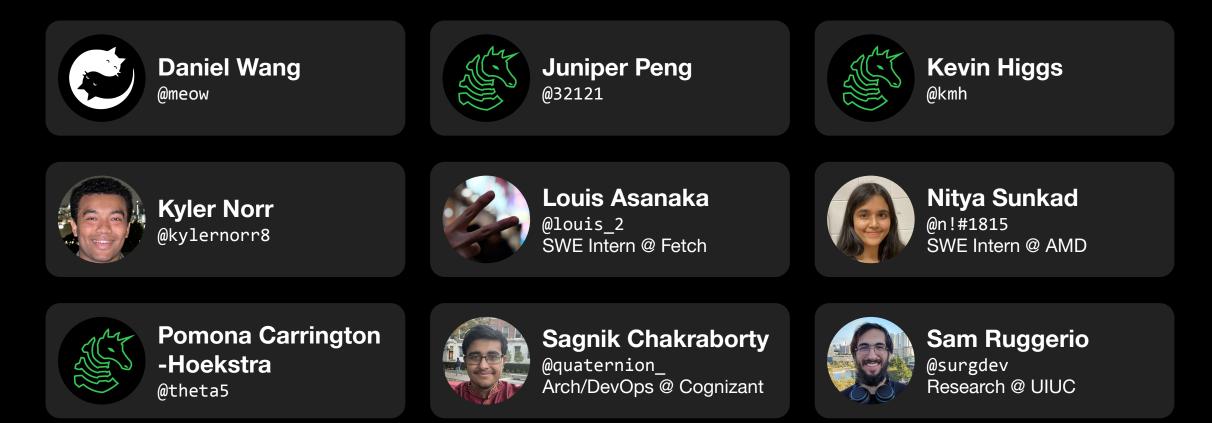
#### **Minh Duong** @WhiteHoodHacker VR/RE Intern @ Battelle



**Richard Liu** @rliu Cybersec Intern @ Sandia



#### **Helper Team**





#### Alumni

Name	Тад	Current Work and Cool Things
Ankur Sundara	@arxenix	Security @ Leviathan
Chris Kauchak	@2much4u	Vulnerability Research @ REDLattice
Faisal Khalid	@Chief	Cyber Risk @ Deloitte
lan Klatzco	@ian5v	Security Consultant @ ???
Kuilin	@kuilin	PhD @ sslab (Georgia Tech)
Jesse Wang	@jjwang11	Trader @ IMC Trading
Joseph Ravichandran	@Ravi	PhD @ CSAIL (MIT) + DEF CON Speaker
Nathan Farlow	@0x1337cafe	SWE @ Jane Street
Thomas Quig	@sonicninja	Privacy @ Apple
YiFei Zhu	@zhuyifei1999	Linux Kernel Development @ Google
[REDACTED]	[REDACTED]	[REDACTED] @ NSA



## Why join SIGPwny?



#### Why computer security?

- Massive growing industry
  - U.S. will have **750,000** unfilled cybersecurity jobs in 2025
    - Source: <u>AP News</u>
- Cybersecurity is relevant in all careers and computing
- Red teaming break systems
  - Find problems before threat actors find them
- Blue teaming protect systems
  - Fix problems before threat actors take advantage of them



## How do I join SIGPwny?

You already have!

sigpwny.com/discord to join our Discord server

sigpwny.com/auth to receive the @UIUC role



#### **Two Meetings/Week!**

#### Thursdays at 7–8 PM

- Siebel CS 1404
- 15 minutes talking
- 45 minutes doing

#### Sundays at 2–3 PM

- Siebel CS 1404
- 1 hour of extended lecture



#### What we will and won't do



#### You Will:

- Learn how to think with an 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

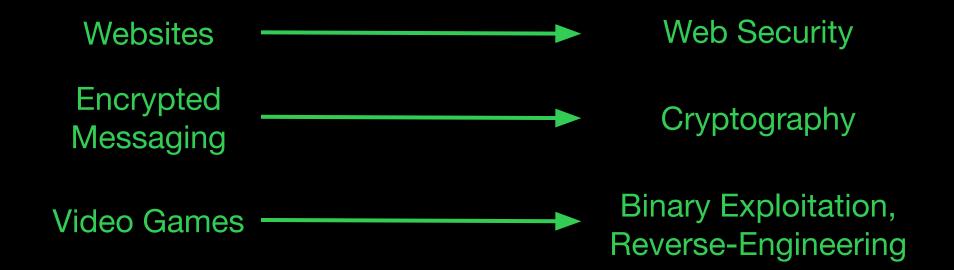


#### You Won't:

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



Cybersecurity is needed for every aspect of computer science!





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

Master

Beginner









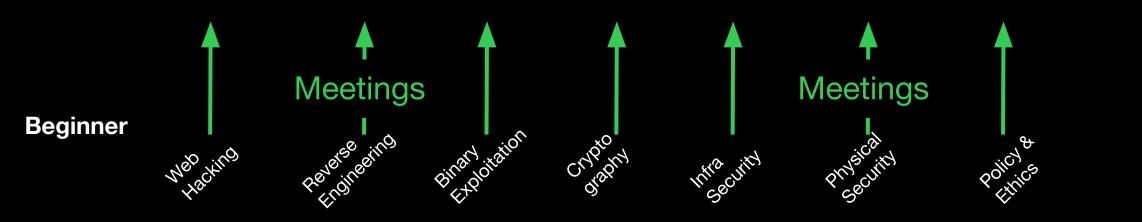




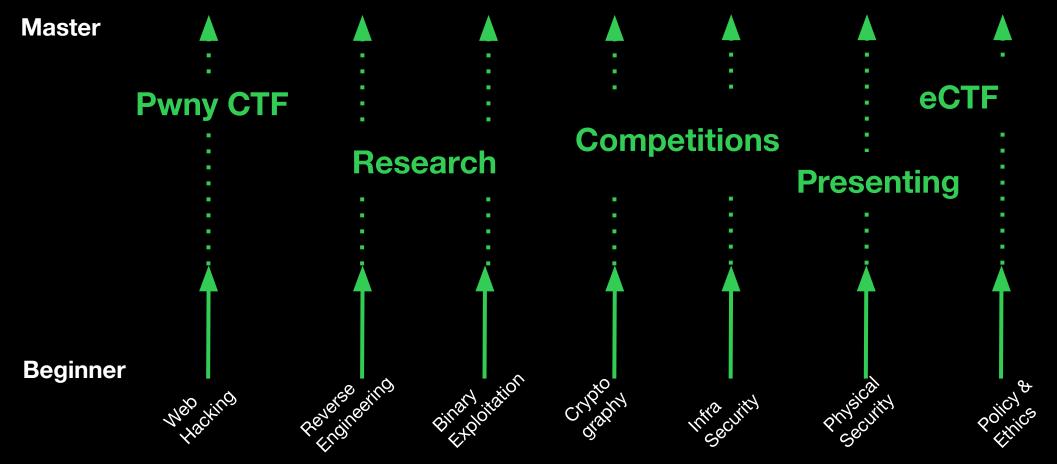


... but teach you the basics of every field...

Master



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



## **Code of Conduct**



#### **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.



#### 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 to break into it, DON'T



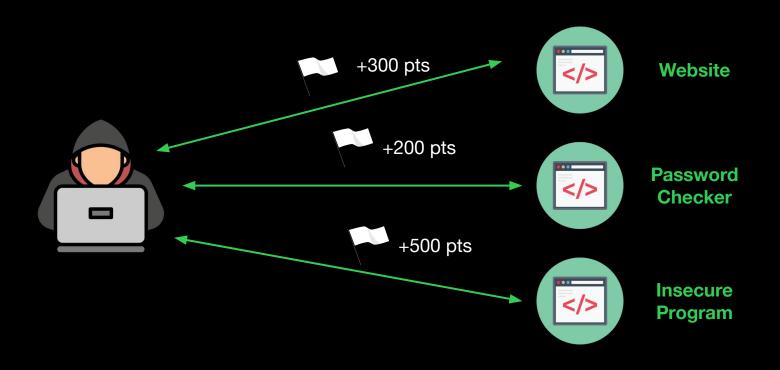
## Opportunities

How to get involved with SIGPwny!



#### Capture the Flag (CTF)

- Cybersecurity competition
- Compete against other teams
- "Jeopardy style" hack the most (and hardest) things to win

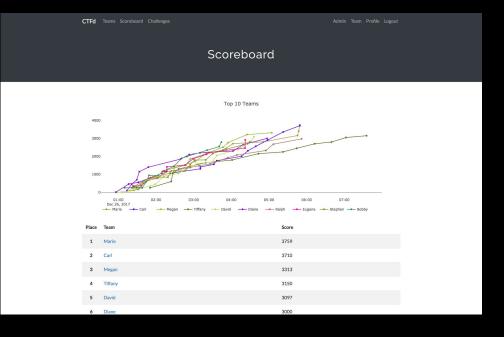




#### Capture the Flag (CTF)

- 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!







#### Capture the Flag (CTF)



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



- **PatriotCTF 2023** September 8th First beginner CTF we will play!
- Fall CTF 2023 September 23rd

A beginner CTF that SIGPwny runs exclusively for UIUC students and people completely new to cybersecurity! Free food, shirt, PCB badge, and prizes!



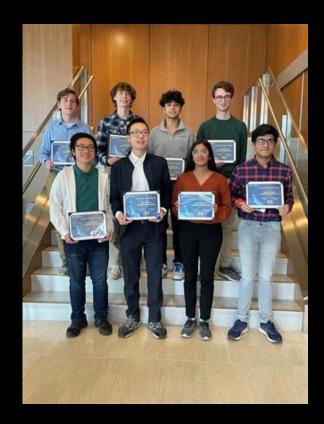
#### Fuzzing Team NEW!

- Find vulnerabilities in programs and get bug bounties (\$\$\$)
- Use fuzz testing to automate uncovering bugs
- Running over the course of the semester
- Systems programming experience required
- First meeting on Saturday, September 2 at 11am (room TBA)
  - Future meeting times will be flexible
- Message @rliu on Discord if interested

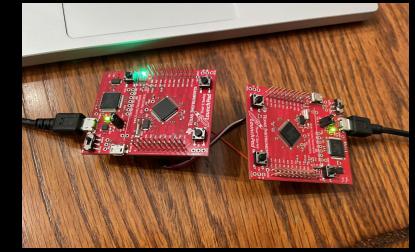


#### eCTF (Spring 2024)

- Semester-long "Embedded CTF"
- Design and hack embedded systems
- Challenge changes every year
  - Last year, it was a car and key fob system
- Comes with 1 hour of credit!









#### **UIUCTF (Spring/Summer 2024)**

- Our global CTF event for the larger security field
- Design challenges for hundreds of people to solve
- Show off what you've learned and give back to the security education community



#### **Next Meetings**

#### 2023-08-30 • This Wednesday

- Bowling Social Event
- 7–9 PM @ Illini Union Rec Room

#### 2023-09-07 • Next Thursday

- Web Hacking I
- Bring your laptop!

Join our Google Calendar! sigpwny.com/gcal





#### Thank you! Any questions?

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

