

#### root@kali:~#whoami

- Mary Wang
- Graduated from Cal Poly Pomona
- BS. Computer Science
- MBA Master of Business Administration
- Background:
  - Software Engineering
  - 4.5 years ago Cybersecurity Senior Principal Information Assurance Engineer
- Employer: Northrop Grumman Corporation
- Certs: CISSP, CEH, CNDA and Security+
- President Award 2019 Women's Society of Cyberjutsu (WSC)
- Blue Teamer at work
- Work with College/High School Interns
- Topics of Interest:
- 1. Blue Team Defense in Depth
- 2. Red Team Techniques
- 3. Volunteering
- 4. Reverse Engineering Malware
- 5. Open Source Software
- Work Out and Travel







WOMEN'S SOCIETY OF CYBERJUTSU



### **Empowering Women & Girls in Cybersecurity Careers**

- The Women's Society of Cyberjutsu (WSC), a 501(c)3 non-profit, is dedicated to raising awareness of cybersecurity career opportunities and advancement for women in the field, closing the gender gap and the overall workforce gap in information security roles
  - Hands-on Technical Training
  - Networking and Outreach

## HOW I STARTED MY CYBERSECURITY CAREER.....

Feb 2012-Nov 2012 Led a research project Jan 2013
Took information systems security cert courses and attended security conferences

Sept 2014

Took an Ethical Hacking course and attended cybersecurity meet ups



Jan 2015
Participated in a cyber competition as a blue teamer

# HOW I STARTED MY CYBERSECURITY CAREER (CONT.)

Aug 2015
Started my first
cybersecurity job at
Raytheon

Sept 2015 – Feb 2017 Passed Security+ cert exam Started participating a CISSP study group March 2017 - Now
Started my second
cybersecurity job at
Northrop Grumman
Passed CISSP cert exam

Passed CEH cert exam

A member of the WSC SoCal chapter leadership

Now ......

Started doing security talks Won the President Award 2019

Working on an AWS cert exam

### DEGREE AND CERTIFICATIONS

#### • GET THEM!

- STEM Degree Or Degree with Technical Emphasize
  - Computer Science
  - Engineering
  - Computer Information System
  - Information Technology
- Entry Level Certifications
  - CompTIA Security+
  - EC-Council Certified Ethical Hacker (CEH)



## MY ADVICE FOR COLLEGE STUDENTS

- Stay on the Course
- Take Leadership Roles
- Really Learn
- Follow Cybersecurity People at Social Media
- Practice Public Speaking
  - Soft Skills are Important
- Team Building
- Hang Out and Build Stuff with Other Smart People
  - Participate in competitions and clubs
- Find a Mentor



# MY ADVICE FOR COLLEGE STUDENTS (CONT.)

- Attend local meetups
  - Keep on learning
  - Volunteer
- Cybersecurity is a sensitive career field
  - 1. Do a background of yourself



## CYBERSECURITY MEETUPS







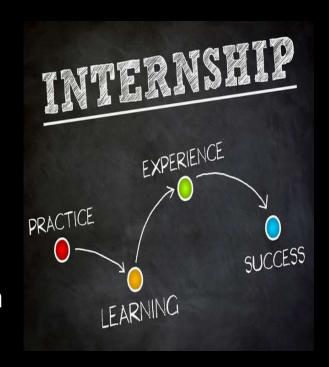






## **COLLEGE INTERNSHIP**

- Start apply for one NOW
  - Once you are in, mostly likely, you will be hired by graduation
- GPA is important!!
- Participate cyber or coding competitions
- Keep a record of all the home and external projects that you are working on:
  - GitHub Repo
  - All presentations that you did (especially in a conference or meetup)



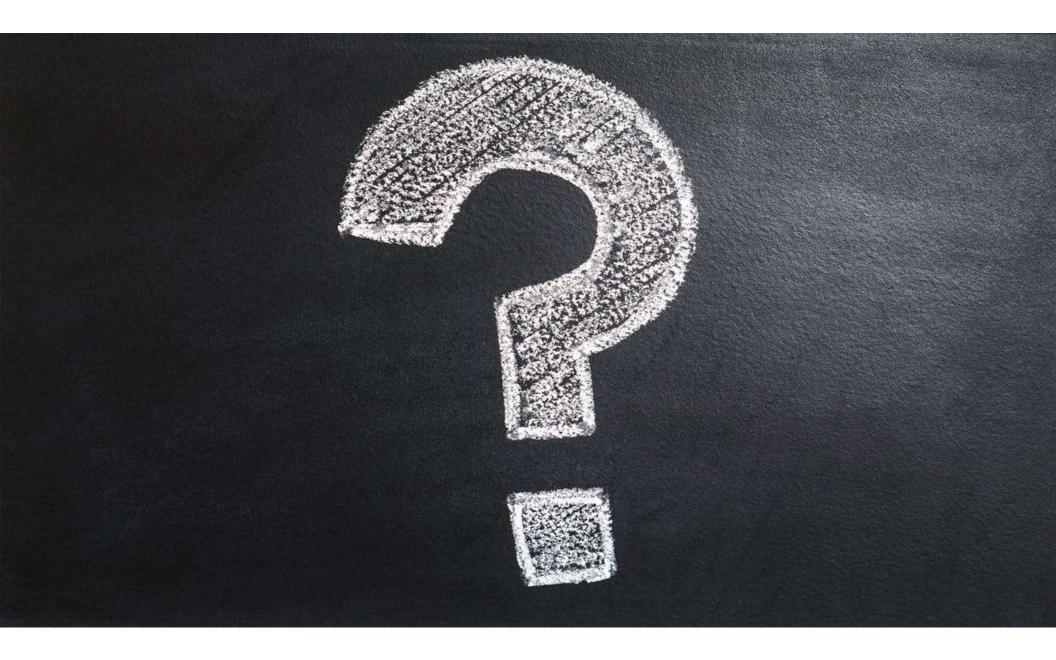
```
32
33
                self.logdupes - True
34
                self.debug = det
35
                self.logger
 36
                    path:
 37
 38
                      self.file.seek(0)
  39
                      self.fingerprints.
  40
  41
              def from_settings(cls, settings)
debug = settings.gettings
             @classmethod
   42
   43
                   return cls(job_dir(settings)
               def request_seen(self, request):
                    fp = self.request_fingerprise(request)
    47
                        fp in self.fingerprints:
                          return True
                     self.fingerprints.add(fp)
                     if self.file:
                          self.file.write(fp + os.liment)
                 def request_fingerprint(self, request);
    return request_fingerprint(request);
```

If you can't code, you'll always be dependent on those who can.

## Learn to code.

LAST, TWO POINTS....

# 1. Volunteer2. Do the RIGHT THING





# PROFESSIONAL ASSOCIATIONS (MEETUP GROUPS)

- Women's Society of Cyberjutsu (WSC) <a href="https://www.meetup.com/SoCal-Women-in-Cybersecurity/">https://www.meetup.com/SoCal-Women-in-Cybersecurity/</a>
- Open Web Application Security Project (OWASP) Los Angeles <a href="https://www.meetup.com/OWASP-Los-Angeles/">https://www.meetup.com/OWASP-Los-Angeles/</a>
- LA Ethical Technical Hackers and Leets (LETHAL) <u>https://www.meetup.com/LETHAL/</u>
- ISSA Los Angeles <a href="https://www.meetup.com/ISSA-LA/">https://www.meetup.com/ISSA-LA/</a>
- Cloud Security Alliance, Los Angeles <a href="https://www.meetup.com/LASC-CSA/">https://www.meetup.com/LASC-CSA/</a>