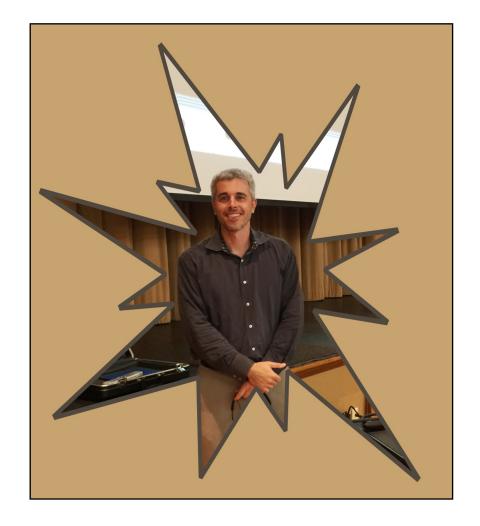
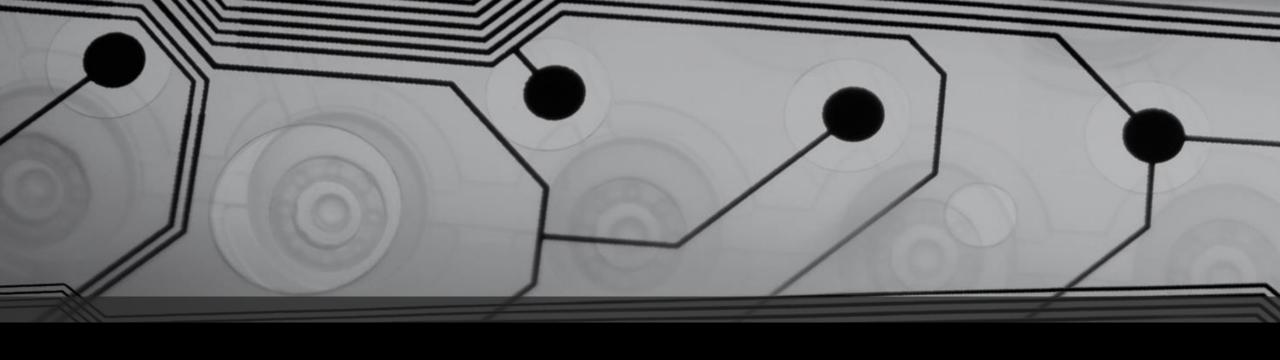
November 7, 2016



Joe Kraft presents

How To Stay Safe From People Like Me





## Protecting yourself in the Online World

Or, How to stay safe from people like me

#### Who Am I?

- Originally from Illinois
- Moved to Georgetown in 2013
- Taxi Driver, Seat Filler, Diaper Changer
- 20+ Years in IT Industry
- Ran a Security Consulting group for several years
- 4 Years as lead Application Security Analyst for ADP



#### OMG, the 1337 H4X0R is taking over!

- Clinton Email Hacks
- Yahoo! 500 Million stolen accounts
- DDOS takes out Twitter, Netflix, Amazon by using IoT devices
- Credit Card Skimmers
- JPMC, Target, Home Depot Hacks

#### OMG, Big Brother is Watching!

- NSA leaks by Edward Snowden and Harold Thomas Martin III
- Police Scan 117 Million Drivers License Photos for Face Recognition Database
- IoT Devices tracking our every move

#### The 4 W's

- Who Does It
- Why We Do It
- When Do We Do It
- What Do We Do



#### The Who

- hacker: an expert at programming and solving problems with a computer
- White Hat Hackers Do it for good
  - I am a White Hat Hacker for ADP
- Gray Hat Hacker Do it to see if they can



https://goblinbyte.com/2015/08/white-hat-hackers/

- Don't have malicious intent but do sometimes cross ethical or legal boundaries
- Black Hat Hacker Do it for profit or fame
  - These are the ones you read about



#### Why??

- Motivations
  - Money
  - Fame
  - Politics



#### When

- Holidays
- After a major security breach
- After a catastrophic event
- When you're sleeping
- When you're awake
- When you're bad or good





"Perhaps you could tell us how you know if we've been bad or good?"

#### What We Do

- Target people
- Target companies
- Target credit card skimmers
- Target cars
- Target anything that has a vulnerability... and everything has a vulnerability



http://static9.comicvine.com/uploads/scale\_super/4/49348/103280 5-lil\_jon\_dave\_chappelle\_l\_461c9a590dec5.jpg

#### Protecting Yourself

- Targeting People (Social Engineering)
  - Phishing
  - Fake WiFi Hotspots
  - Credit Card Skimmers
  - Online Research
  - Shoulder Surfing
  - Dropping virus bombs
  - Malware
  - Dumpster Diving
  - Stalking



https://fcw.com/~/media/GIG/FCWNow/Topics/Cybersecurity/shield\_digital.jpg

#### Phishing (not the good kind)

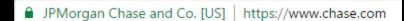
 Attempting to get people to provide sensitive information by pretending to be someone/something else

- Mostly from SPAM emails
- Ways to protect yourself:
  - NEVER click a link in an email
    - ALWAYS type in the address yourself
  - NEVER give personal information over the phone if they call you
    - ALWAYS call them back (Bank, Doctor, etc..)
  - NEVER click a link for a prize/award/reward that you didn't sign up for
    - Even if you did sign up for it, find a way to call them directly
  - If you do have to click a link in an email to go somewhere, verify that the address makes sense.
    - I've fooled people into clicking on <a href="http://www.chase.mybankinfo.com">http://www.chase.mybankinfo.com</a>. They saw Chase, assumed it was real, clicked the link, saw a page that looked like their bank's and gave me their username and password. (Not really, but still a good example)

https://fightingidentitycrimes.com/google-phishing-study/

#### Pretty Fly for a WiFi

- Someone sets up a WiFi access point with a seemingly valid name (ex: "Starbucks WiFi")
  - Can capture all data transmitted by anyone that connects to it
- Ways to protect yourself
  - Don't have your devices (phone, iPad, Laptop) set to automatically connect to a hotspot
  - Don't access sensitive websites (banks, medical sites, etc..)
    from public hotspots
    - If you do makes sure that the address bar in your browser is GREEN... says that the data is encrypted and the site you are at has been verified:





http://themetapicture.com/the-perfect-bait/

#### Credit Card Skimmers

https://krebsonsecurity.com/all-about-skimmers/



https://krebsonsecurity.com/2013/12/the-biggest-skimmers-of-all-fake-atms/





At The Gas Pump

#### Other Social Engineering Attacks

- Fake Wireless Hot Spots
- Shoulder Surfing
- Dropping virus bombs
- Malware
- Dumpster Diving
- Stalking





https://disruptingdinnerparties.files.wordpress.com/2013/09/dumpster-dive.jpg



http://www.5startechnology.com/blog/





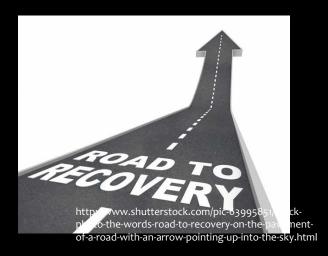
### What do you mean I just bought a car in Reno? I've never been to Reno!

- Your identity has just been stolen
- Your bank accounts were just drained
- You suddenly start getting billed for medical services you didn't receive
- You just bought a car in Reno even though you've never been to Reno...



#### Recovering from the bad

- Start the process as quickly as possible!
- Notify the FTC and get an Identity Theft Report
- Notify the police with your ITR information
- Call your credit card company and bank
  - Include any banks that have unauthorized accounts
- Notify the 3 Credit Bureaus
- Government Resources:
  - FTC: https://www.consumer.gov/articles/1016-recovering-identity-theft
  - https://www.identitytheft.gov/
    - Get a personal recovery plan
    - Will track your progress
    - Offers forms and letters you'll need to send out to recover





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# SURF

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http://www.memegen.com/meme/wsyb2z