Mason Competitive Cyber Intro Meeting

MASONCC

What do we do?

- Organize Teams for
  - Capture the Flag competitions
  - Computer Network Defense competitions
  - Any other kind of cyber security related competition

Capture the Flag Competitions

- Usually online, over a weekend

- Jeopardy style
  - Questions worth varying amounts of points
  - Complete tasks to find the answer, called the "flag"
    - Web exploitation
    - Forensics
    - Cryptography
    - Reverse engineering

- Attack/Defense style
  - Option 1: server that everyone tries to control
  - Option 2: protect your own machine, capture other people's machines
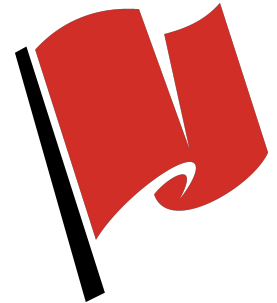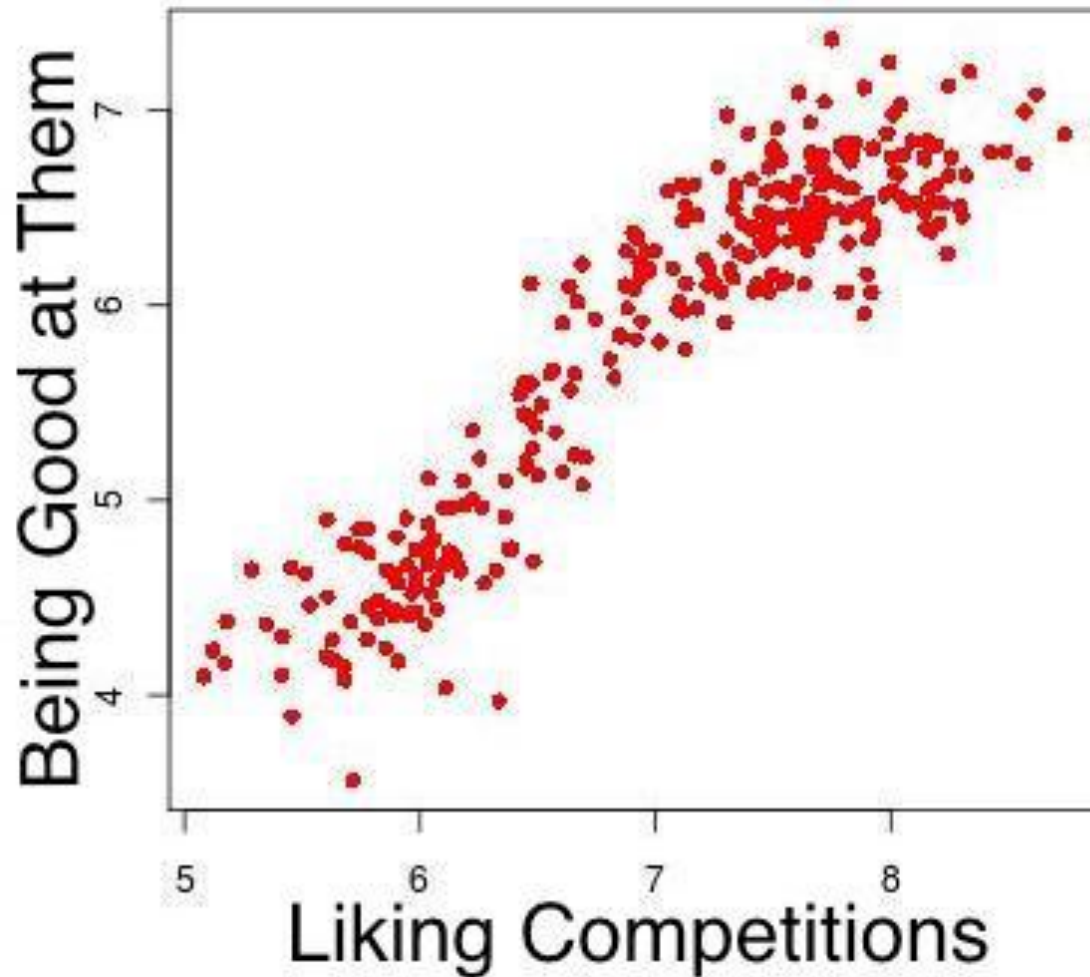
Prior Experience

- No prior experience necessary

- We will train you
  - That's what these meetings are for
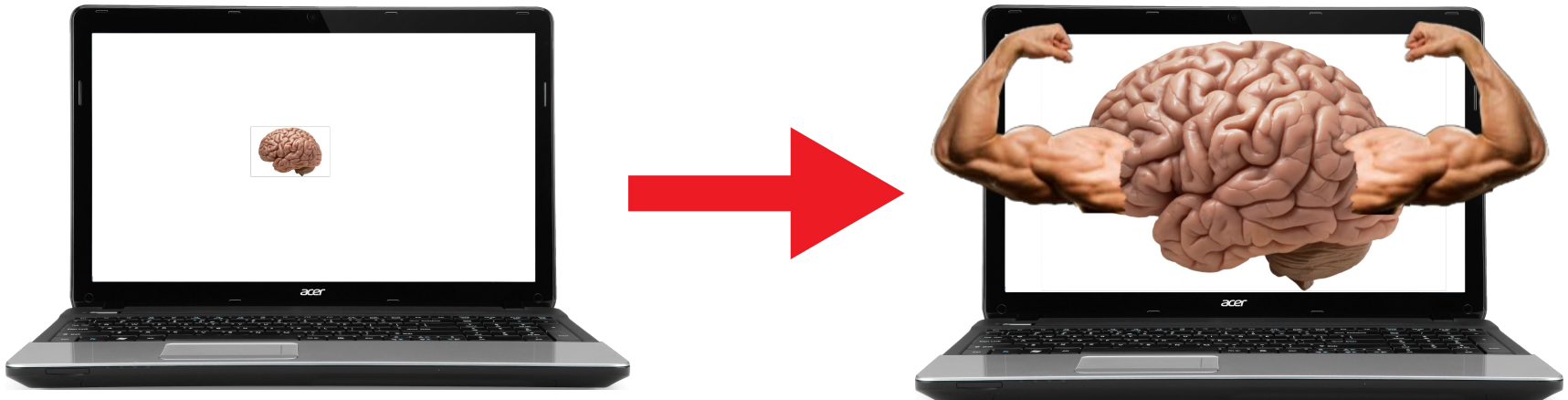
- They're fun

Why should you care about competitions?

- Money

- Travel

- Free food, t-shirts, and other company swag

- Real world skills
  - List on resume

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Education:

Pursuing Cyber Security Engineering BS from GMU (BS doesn't stand for Bachelor of Science)
2.0/4.0 GPA depending on if my parents are within earshot or not
Simplest G Number (G00970000)
International Baccalaureate Diploma Recipient

Cyber Competitions:

-Basically a hacker

Work Experience:

-Worked for two summers at Cardinal Hill Swim and Racquet Club as a Junior Tennis Pro. Responsible for teaching munchkins that were sacks of rebellion and chaos, including "Asperger's Anthony"

Certifications:

-CPR, First Aid, and SCUBA certified
-Ordained Minister of the Universal Life Church
-Former World's Youngest Person

Skills:

-Semi-Professional air guitarist
-Proficient in jumping over speed bumps on a Razor scooter
-Always carries groceries in one trip
-50% of the time I can correctly call a coin toss 100% correctly
-Ability to spontaneously spawn extra chins when taking Snapchat selfies
-Fluent in English, as long as not talking to beautiful women

Accomplishments:

-Ate a large pizza in one sitting, on multiple occasions
-Sniped a long range paper basketball shot into the trash can from across the room (Yes, I'm considering the NBA)
-Once I looked up from my phone while I was around strangers

Meeting Schedule

Date	Location	Possible Topic (Tentative, ask in Slack if you absolutely need to know)
Sept 6	JC Meeting Room C	Club Intro/PicoCTF Problems
Sept 13	JC Meeting Room G	Web Application Exploitation
Sept 20	JC Meeting Room G	Web Application Exploitation, Volume 2
Sept 27	JC Meeting Room G	TBA
Oct 4	JC Meeting Room G	Scripting and Linux
Oct 11	JC Meeting Room C	TBA
Oct 18	JC Meeting Room G	AWS (EC2, by popular demand)
Oct 25	JC Meeting Room G	Digital Forensics
Nov 1	JC Meeting Room G	Reverse Engineering
Nov 8	JC Meeting Room G	Intro to Pwning
Nov 15	JC Meeting Room G	TBA
Nov 29	JC Meeting Room G	TBA
Dec 6	JC Room 239A (Lost? Ask in Slack)	Steganography

Slack

- Our primary method of communication
- Coordinate teams for competitions
- masoncc.slack.com

New Things This Semester

- CTF Cheat Sheet
  - go.gmu.edu/masoncc
  - work in progress
  - Examples of solutions for common challenges
- MasonCC VM
  - Kali
  - SIFT
  - Tools from CTF wiki
- Scripts
  - MasonCC github
  - ciphertool

Normal Meeting Format

- Cyber security news since last meeting
- Recent CTFs & interesting challenges from them
- Upcoming CTFs
- Main meeting topic
- Relevant hands-on challenges
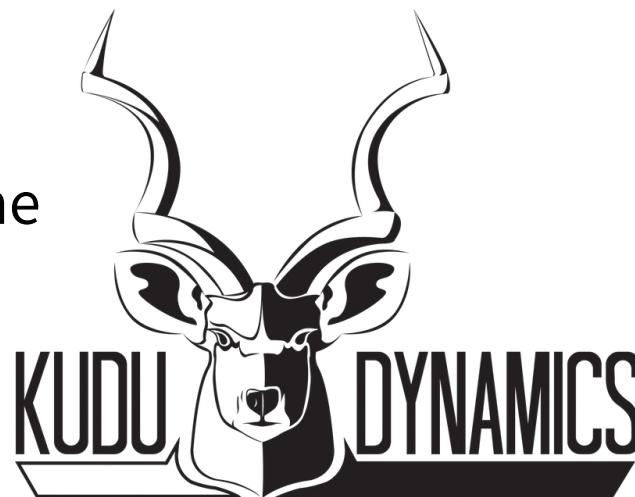
Upcoming CTFs & Events

- Booz Allen CTF
  - 9/12 6-8pm
  - In-person @ GMU MIX
- Capital One CTF
  - Time
  - Format
- CSAW CTF Qualification Round 2017
  - 12pm 9/15 - 12pm 9/17
  - Online
  - Jeopardy
  - Not that hard

Jobs

- #jobs channel in Slack
- Kudu Dynamics
  - Jr. Software Engineer
  - Jr. Software Engineer part-time
- The Crypsis Group
  - Incident Response
  - Full-time only

Poll

- go.gmu.edu/poll
    - So we can tailor the training to your experience level

Meeting Topic

- 52.44.222.5
  - Training CTF
  masoncc{flagexample}

Resources Mentioned

- masoncc.slack.com
  - primary messaging platform

- competitivecyber.club/trainctf
  - Training CTF
  - Do this if you haven't done a CTF before
  - Use this to see if you need to learn more about a topic

- Resources to help in competition (pinned in #general in Slack)
  - CTF Cheat Sheet
  - Virtual Machine with pre-installed tools & scripts
  - scripts (will be published soon on MasonCC github)

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Thank you to these organizations who give us their support: