

Presented by Anastacia Webster

# About me...



## What is Open Source Intelligence?

- What are open sources?
- What is intelligence?
- How do the two meet?
- Why should we care?

## **OSINT Workflow**

### 1 to ∞

Name Telephone Number Address Past Addresses

Email Address (All of them)

Job Address Job Telephone Number Relative Date of Birth

Social Security Number Civil and Public Court Records Criminal Records

Photos Photos of Address

Marriage Divorce Voter Registration Tax Filings

Licenses Past Employment Drivers License Accidents

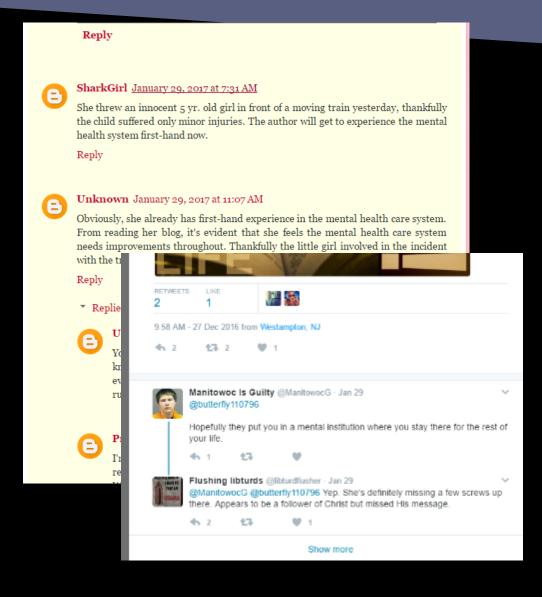
ETC....

## **Privacy vs. Information Privacy**

- Privacy is NOT absolute...
- Information Privacy...NON-EXISTANT
- Privacy Arguments
  - Pro:
    - "I have nothing to hide."
  - Con:
    - Those stories we don't want our bosses knowing about

### **Autumn Matacchiera**

- Allegedly threw five year old girl in front of a train...
- Within hours, comments appeared on her personal blog from users using OSINT techniques to find her online.
- \*\*Note: By this time her FB was already deactivated.



## **Suitable For Framing**

- Store allegedly refused to frame a customers inauguration pics...
- Within hours of the story, yelp site was flooded with poor reviews and nasty comments.



Suitable For Framing - 74 Photos & 146 Reviews - Art Galleries - 105 ...

https://www.yelp.com → Arts & Entertainment → Art Galleries ▼

★★★★★ Rating: 1.5 - 146 reviews - Price range: \$\$\$\$

146 reviews of Suitable For Framing 'There were 90 reviews earlier this morning, ... to all who visit the town of Aspen, Colorado--AVOID THIS ESTABLISHMENT!

Suitable For Framing - 77 Reviews - Art Galleries - 105 S ... - Yelp

https://www.yelp.com → Arts & Entertainment → Art Galleries ▼

\*\*\*\*\* Rating: 1.1 - 77 reviews - Price range: \$\$\$\$

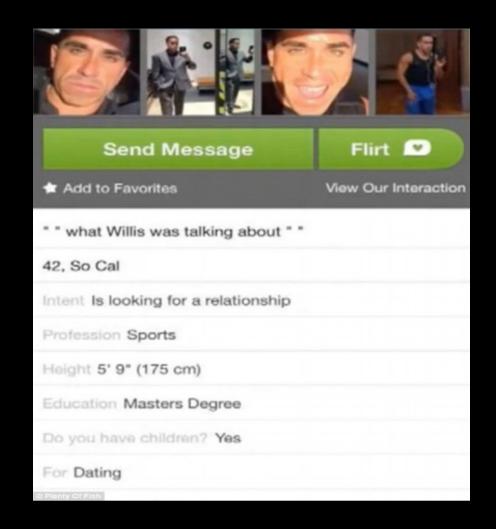
77 reviews of Suitable For Framing "BEWARE. The owners are hypocrites. Unfair business practice. Take your framing projects to Frame Center, Aspen Art ...

## **Ethics and OSINT**

- Some grey areas...
- Some Ethical Issues
  - Disinformation
  - Accuracy
  - Credibility
  - Reliability
  - Abuse of Power
    - Integrity
  - Exploitation
  - Privacy
  - Aggregation
    - Confidential and Classified Data/Info

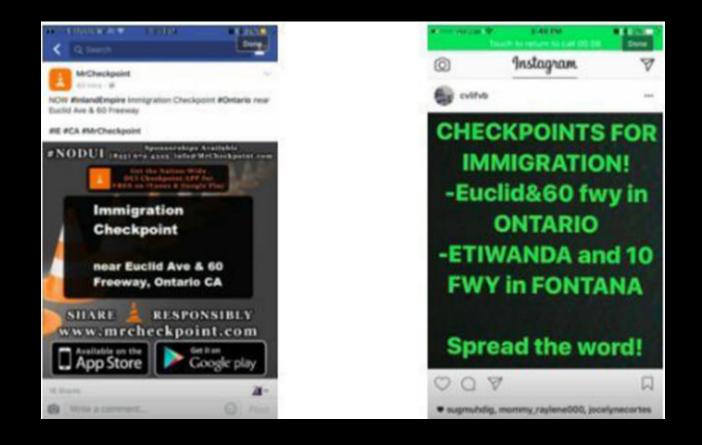
## FBI Warns of Online Dating Scams

- Targeting women 40+ who are divorced, widowed, and/or disabled...but everyone at risk..
- Scam: Contacted by someone online that appears interested
- Attacker/scammer build rapport, may even send items (i.e. flowers)
- Asks you for money, to cash checks, or to forward packages



## News (& Fake News) and Social Media

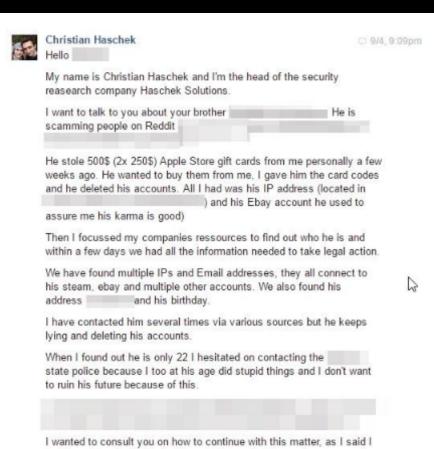
• On February 3, 2016, Law Enforcement, in conjunction with the Los Angeles Times, released a statement against the wave of false deportation checkpoints on popular platforms like Facebook, Instagram and Twitter.



## **Using OSINT to Find the Scammers**

https://blog.haschek.at/2016/how-a-scammer-stole-500-dollars-from-me

• SUCH AN AMAZING STORY...



don't want to ruin his life but I need to know that he won't scam people

anymore. Best regards, Christian

# Open Source Intelligence and Research Association (OSIRA) Code of Ethics

- 1. Responsibility
  - Take responsibility for your actions.
- 2. Professionalism
  - Always continue to learn and strive for moral high ground.
- 3. Credibility
  - Be objective and verify the credibility of sources/accuracy of information.
- 4. Personal Example
  - Be a role model to others by displaying honesty, integrity, and selflessness.
- 5. Sense of Mission
  - Advance OSIRA and uphold professionalism.
- 6. Comradeship
  - Help out other OSINT researchers.

## ...Cool story, bro...But why should I care?

## HACKERS CARE...That's why...



**Talks & Workshops Announced** 

**Talks** 

Workshops

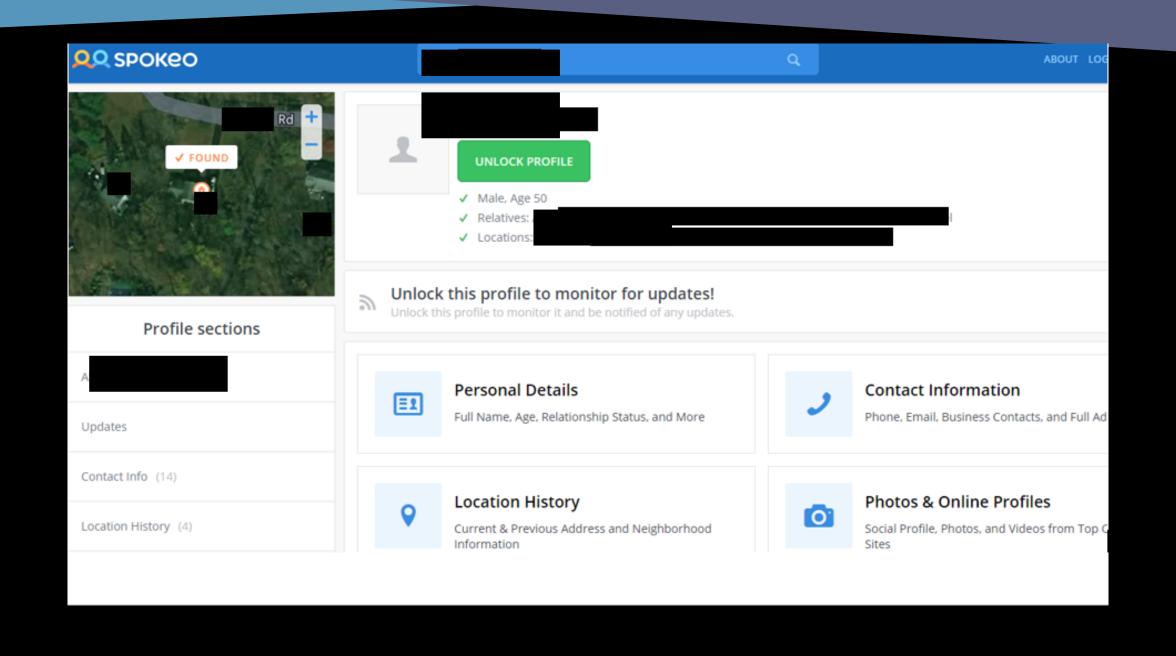
## Data + Information = Knowledge = POWER!

- Name
- DOB
- SSN
- Address (Current and past)
- Employers/Coworkers (current and the past, hierarchy, friendliness)
- Phone Number (Cell, home, work)
- Family (Names, #, POB, DOB, SSN)
- Friends (Names, #, DOB, SSN)
- Likes/Dislikes (Movies, music, newspapers, etc.)
- Political/Religious Views
- Relationships (Wife, mistress, girlfriend...)
- System Information (operating systems, IP, software configurations)
- Personnel Information (employees, position, emails, etc.

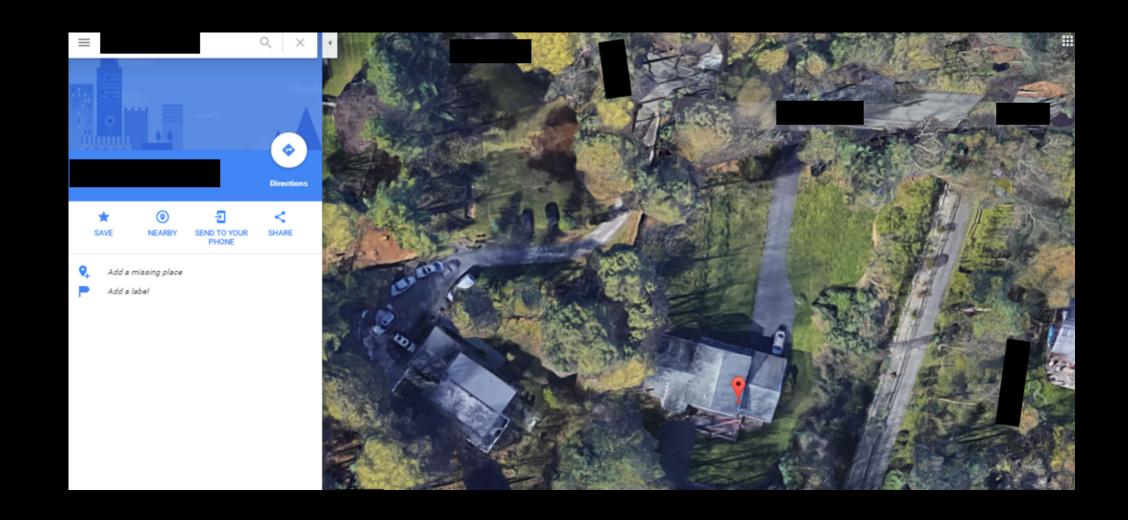
- Interests/Hobbies
- Photos
- Videos
- Purchases
- Car/Truck/Boats
- Important Life Dates (First Child, Graduation, etc)
- Bank
- Favorite Places
- All aliases online
- Social Medias
- Volunteerism/ Activism
- Personas Online (Avatars)
- Files (.ppt, .xls, .xlsx, .doc, .docx, .csv, .pdf, .txt, .rtf, .odt, .ods, .odg, .odp, .wpd

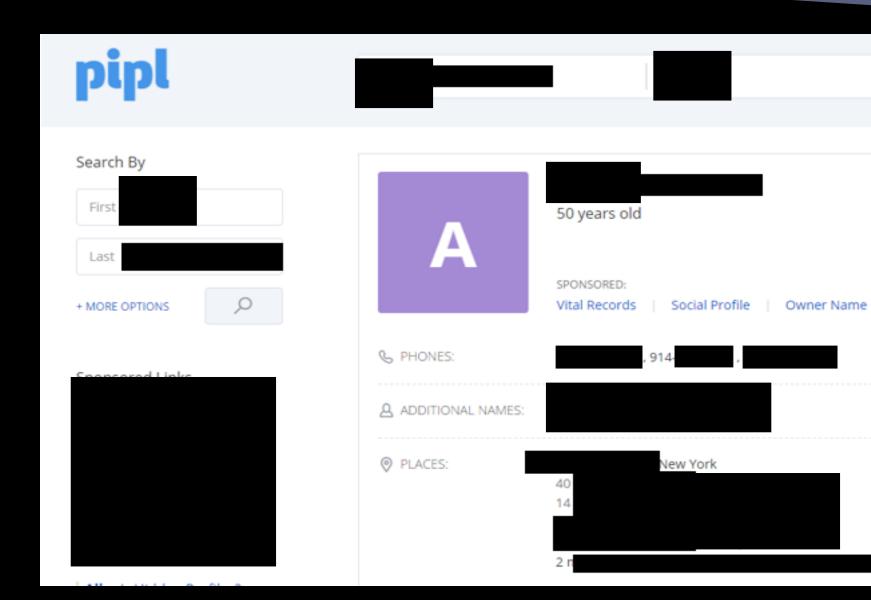
## **Hypothetical Situation**

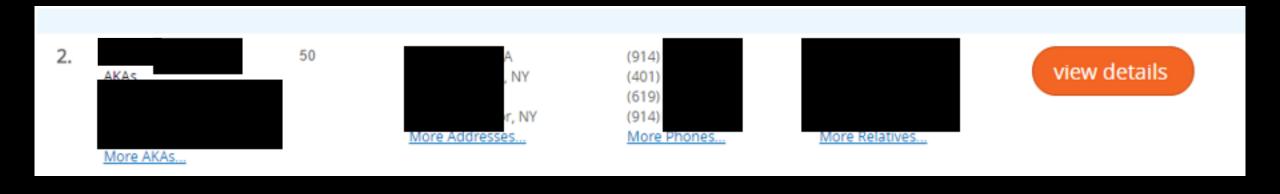
(I had permission to show collect the information I collected and show you what I can...there is going to be a lot of black)



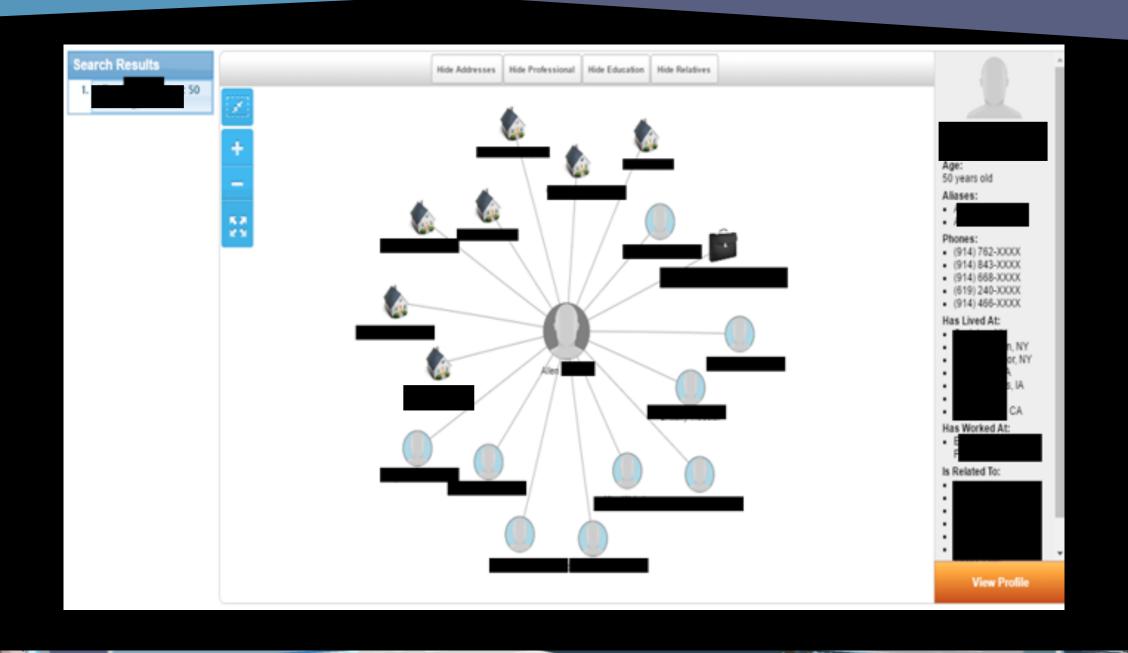
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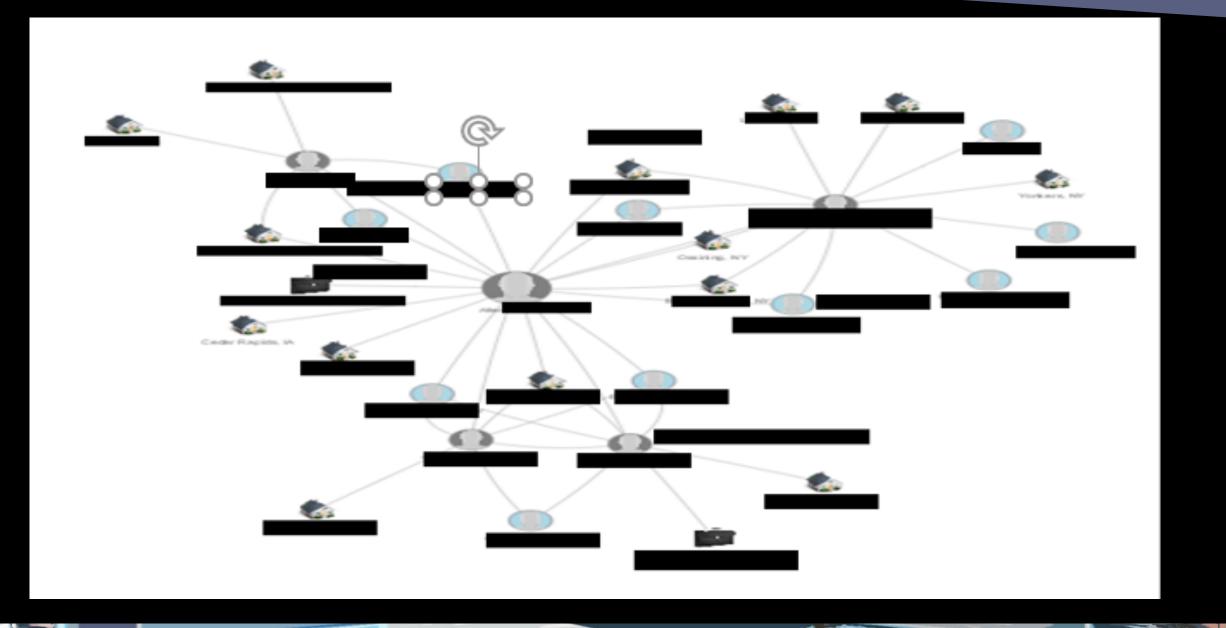






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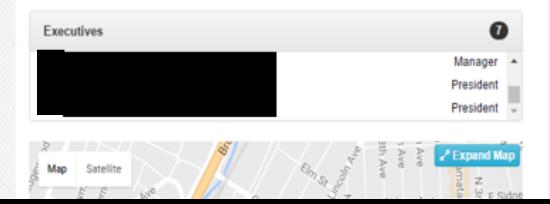


Claim this Business

Print Profile

14 Mg (914)

#### Business Profile Web site Number of Employees 20 to 49 Annual Revenue \$5 to 10 Million Years in business 10 or More Years Type of business SIC Square Footage 10,000 to 49,999 No. of PCs 10 to 24 Small Business Yes



#### **Business Credit Rating**

#### 95 / Excellent

Suggested Credit Capacity:

\$6,000

Company Expenses		
Accounting Expenses	\$25,000 to \$99,999	
Advertising Expenses	\$5,000 to \$14,999	
Business Expenses	\$20,000 to \$49,999	
Legal Expenses	\$25,000 to \$99,999	
Office Equipment Expenses	\$10,000 to \$24,999	
Rent Expenses	\$25,000 to \$99,999	
Technology Expenses	\$25,000 to \$99,999	
Telecom Expenses	\$10,000 to \$24,999	
Utilities Expenses	\$20,000 to \$49,999	

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## Data + Information = Knowledge = POWER!

- Name
- Age
- Location
- Relatives
- Phone Numbers
- Position at Work
- Likes
- Possible Addresses
- Place of Work Address
- Files (List of suppliers)
- Network
- Other Employees

- #of Employees
- Business Line
- Photos
- Aliases
- Website
- Company Worth
- Estimated # of PCs
- Years in Business
- Annual Revenue
- Estimated Expenses
- And much, much more!

## Digital Dossier Assignment

- Almost all of the students are able to find information about themselves, even those with the most common names.
- Those who cannot find information about themselves, usually try to get away with not doing the assignment. (I know this because then I search them).
- Almost all don't reach the full amount of information available about them online. (I know this because I randomly select assignments for review and realize many miss a lot of information).
- Almost all of the students are terrified of what they find and how easy it is for them to find it. Most of them are unaware that the information exists.

## **Digital Dossier Assignment**

- Some students find shocking things about themselves online. One of my students was unaware his criminal DUI from just a mere 4 months before the assignment was given out was available online.
- Most students reveal that the information they find about themselves online does indeed make them vulnerable. (Many surprised by addresses and phone numbers).
- After the assignment all students recognize the power of OSINT research and how they can use it to find information about themselves and others.

...so, Bro...what do I do now?

## How can I protect myself and others?

- Keep your systems updated....exploit Tuesday, patch Wednesday
- Implement a strong password policy
  - Make sure users have a strong password that changes regularly (password management system)
- Protect your privacy...
  - Limit the amount of personal information you share online
  - Do NOT post anything work related online... (sometimes even your position)
  - Be weary of giving your information to others
- Humans are the weakest link in any security policy...
  - Mandatory Staff Training
  - Bottom Up Approach not Top Down
    - Cybersecurity is everyone's business

## **Comments/Questions?**

Contact us at anastacia.webster@csusb.edu

