Welcome!

Use APIs with OSINT…

18 September 2025
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@ OSINT Switzerland

Elisa Nannini

Antonio De la Torre

OSINT SWITZERLAND

Our Mission

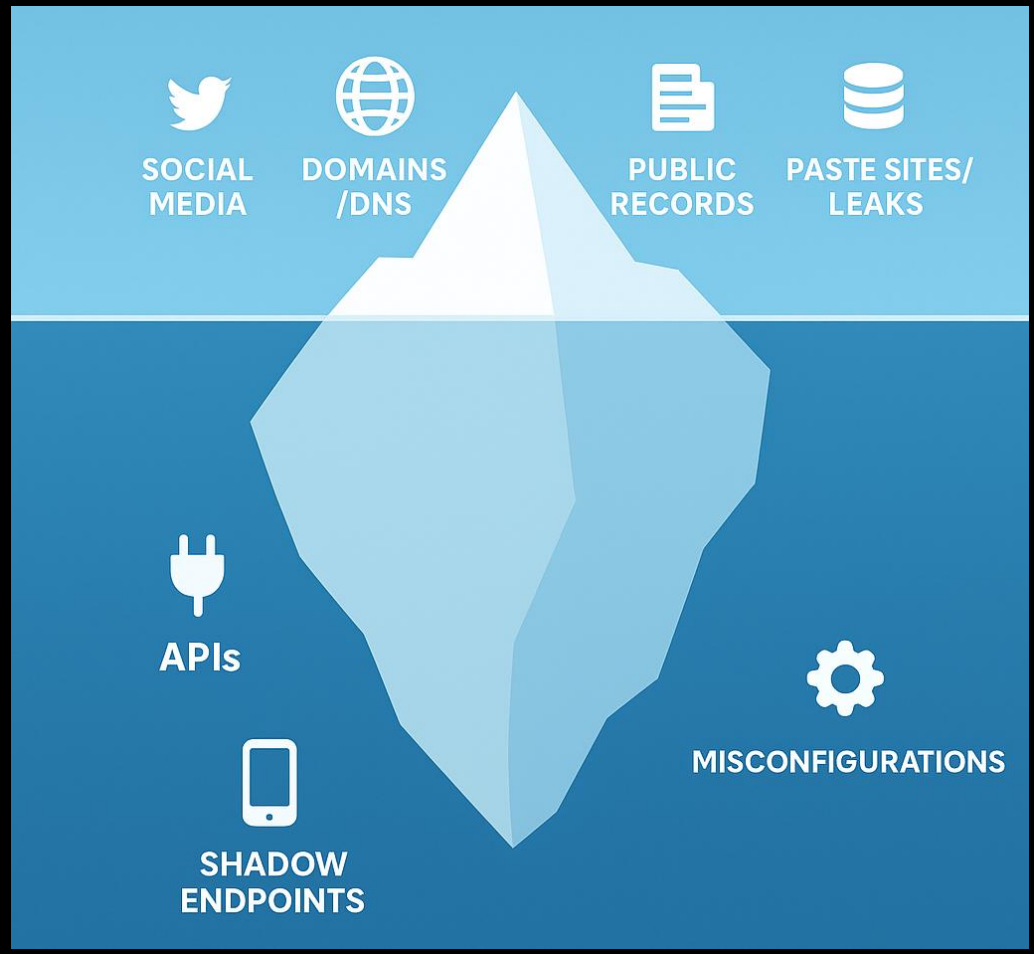
We are a dedicated community for experts, practitioners, and learners passionate about the world of open-source intelligence (OSINT). Our mission is to develop and expand OSINT knowledge, techniques, and best practices in Switzerland.

The OSINT Landscape

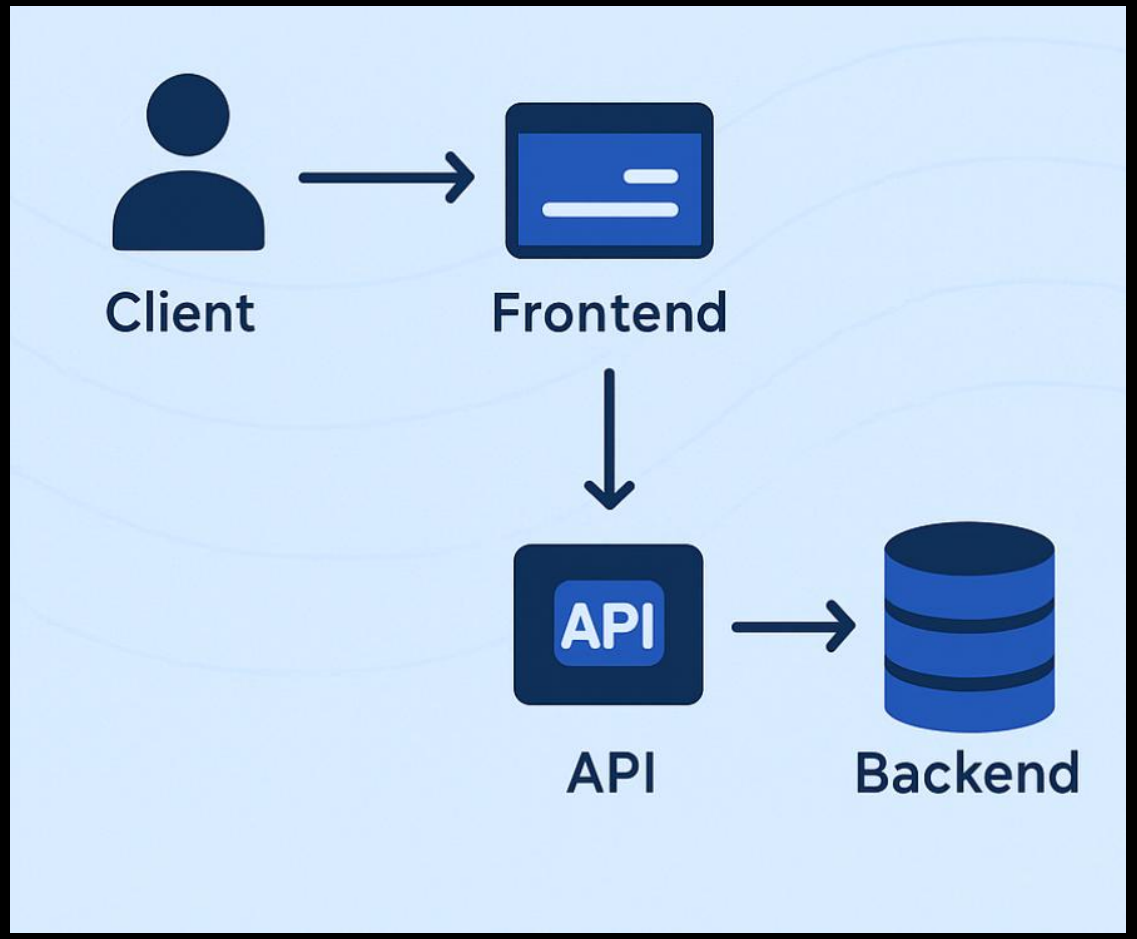
The Changing Face of OSINT

- Explosion of digital footprints everywhere
- Increasing restrictions on “traditional” OSINT sources
- New opportunities in overlooked or hidden data layers
- OSINT is no longer about what data exists, but where and how it leaks

OSINT Beyond the Surface



Under the Surface

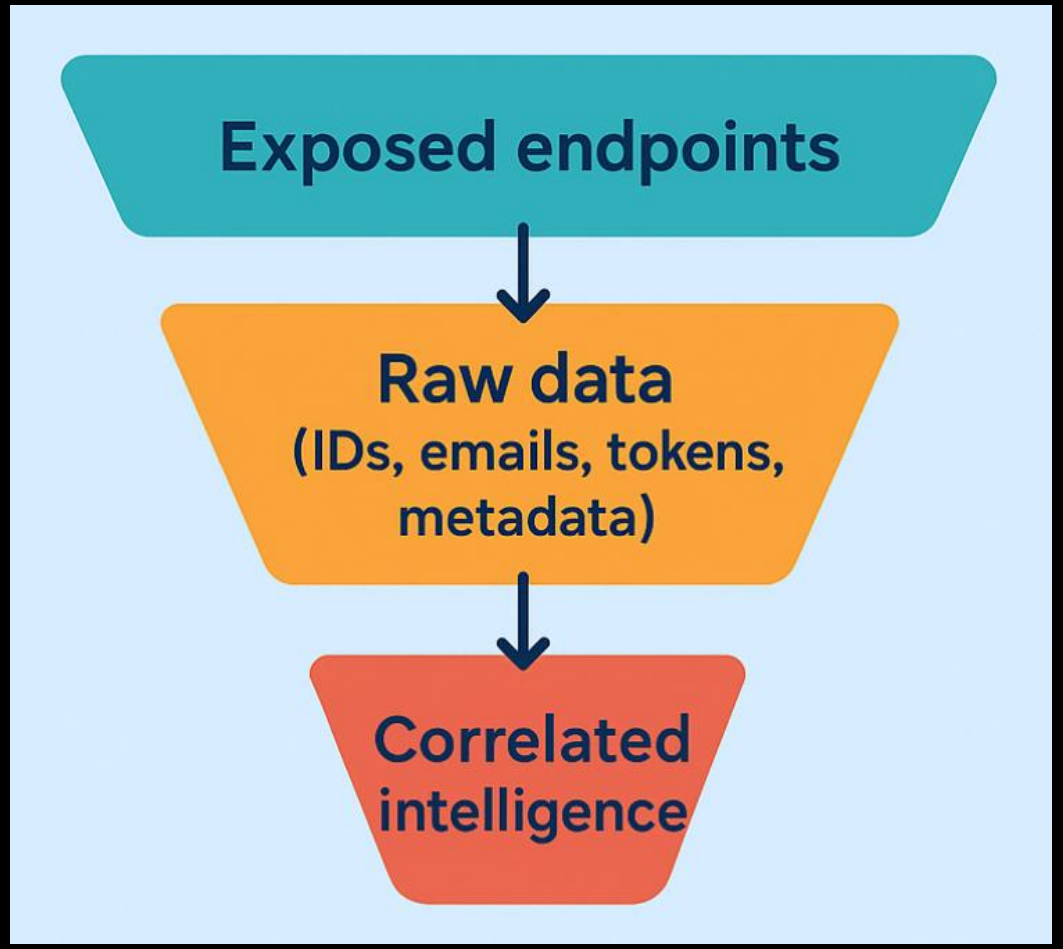


Public APIs – intended access

Shadow APIs – forgotten, undocumented, legacy

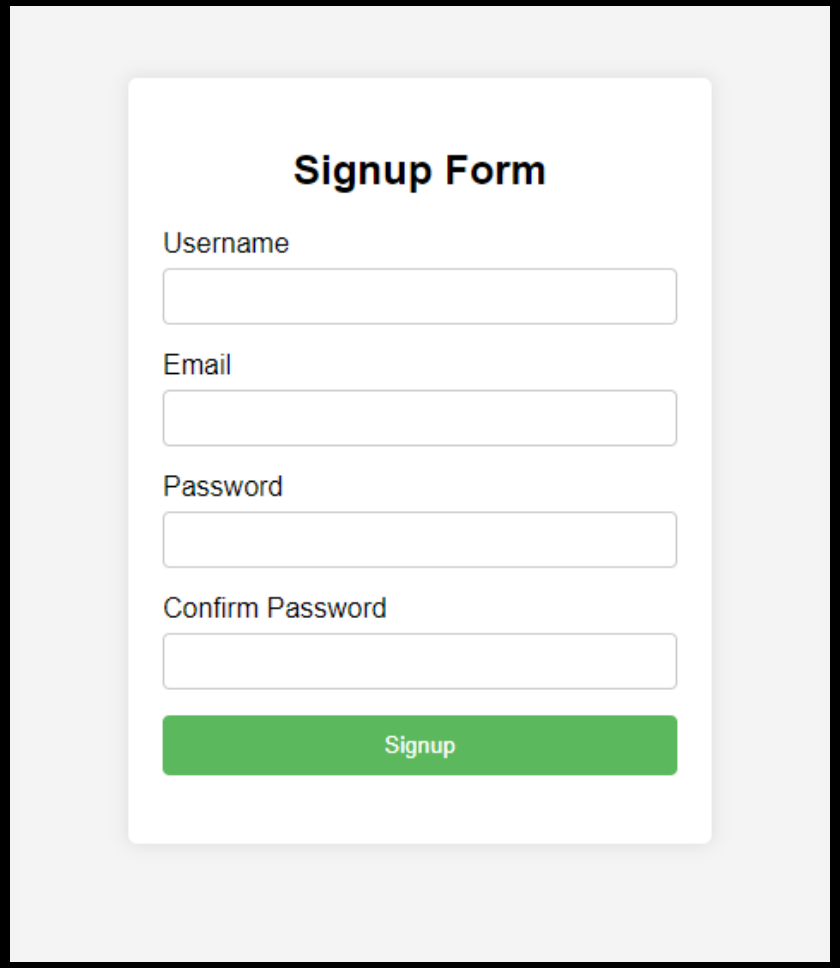
Misconfigured APIs – poor auth, excessive exposure

From Endpoints to Intelligence

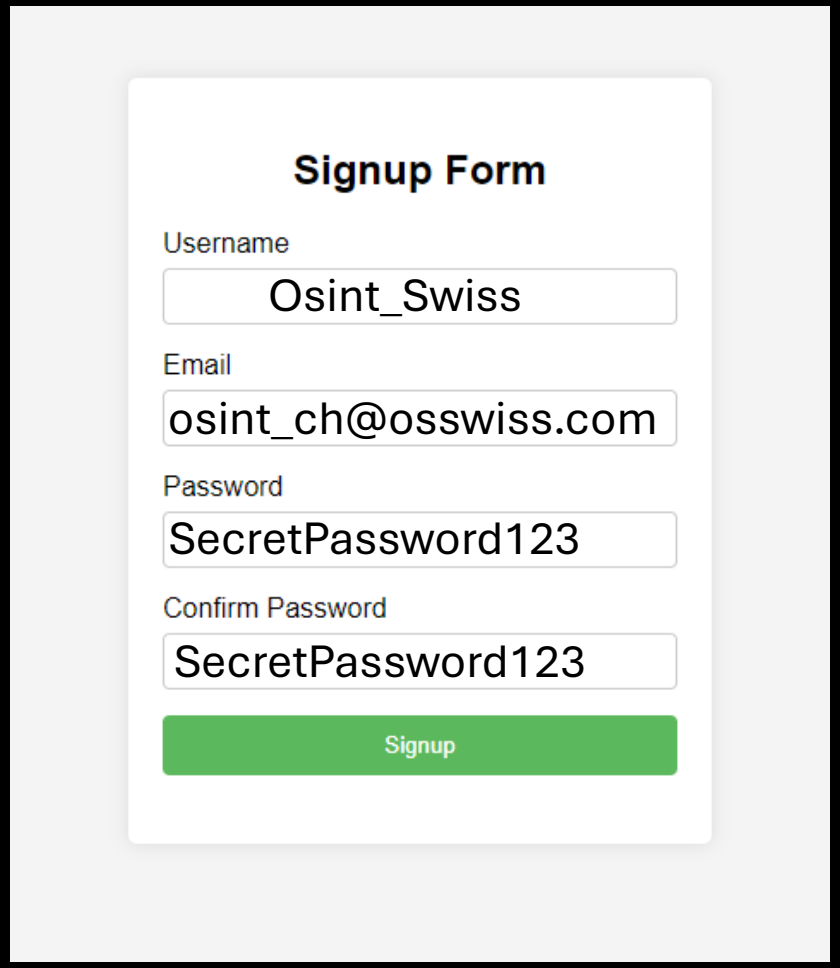


Let’s start with some techniques…

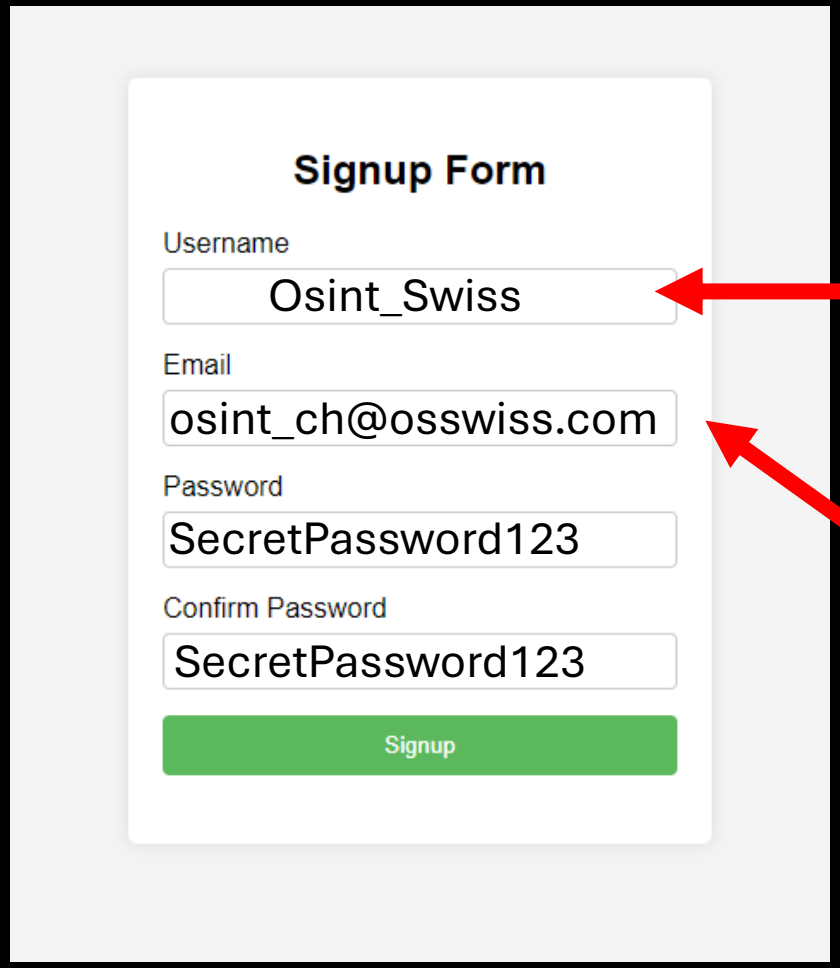
Sign Up


Signup Form
Username
Email
Password
Confirm Password
Signup

Sign Up


Signup Form
Username
Osint_Swiss
Email
osint_ch@osswiss.com
Password
SecretPassword123
Confirm Password
SecretPassword123
Signup

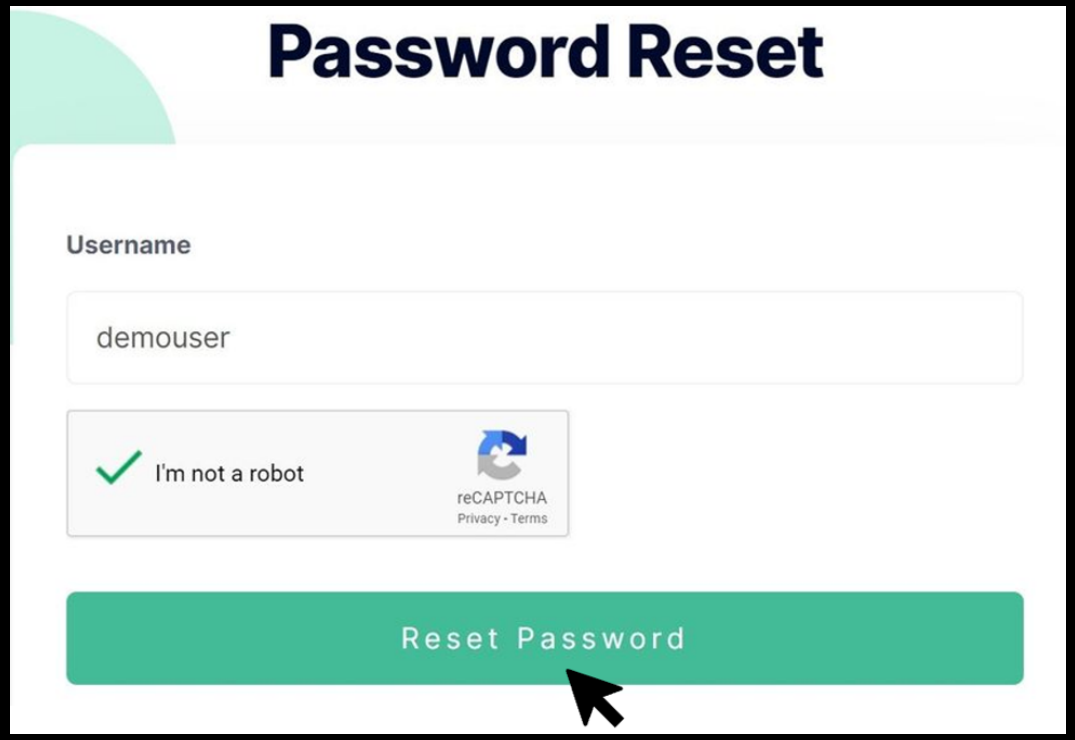
Sign Up



Username already exists

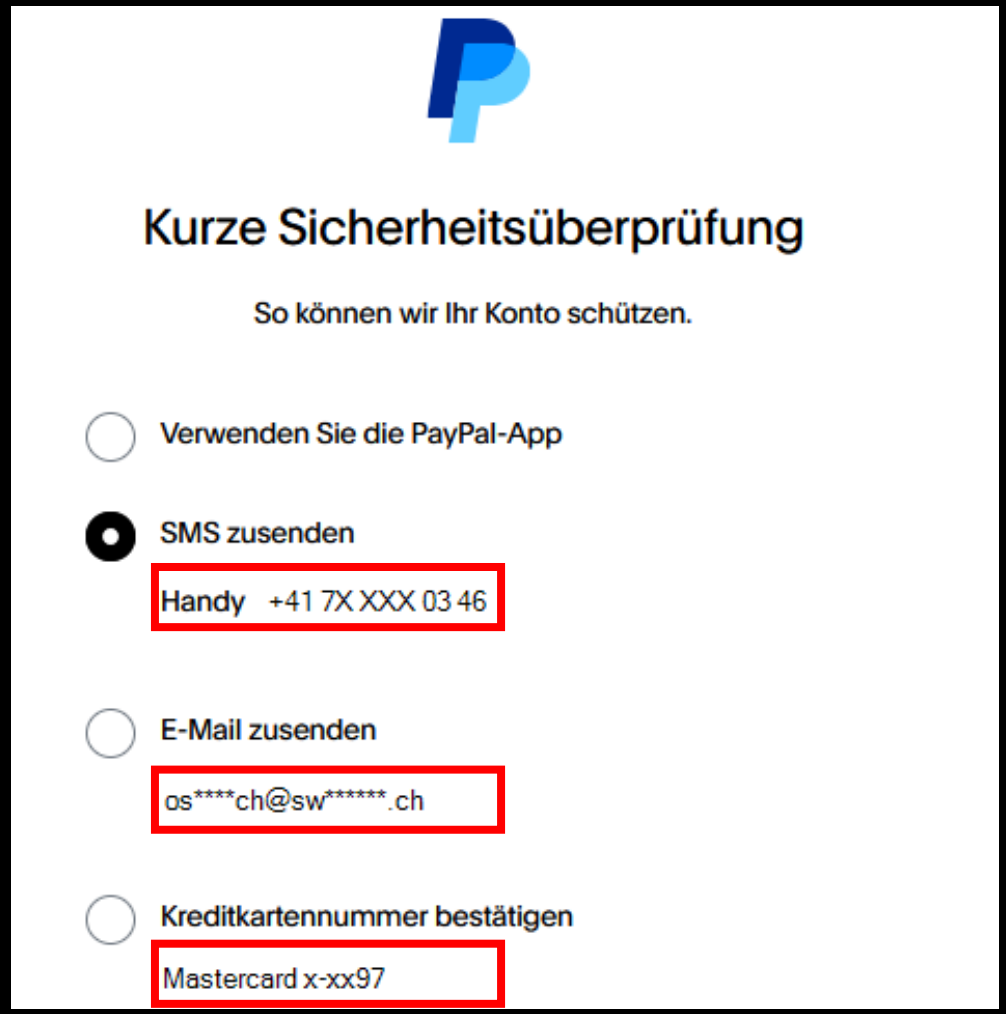
Email already registered

Password Reset

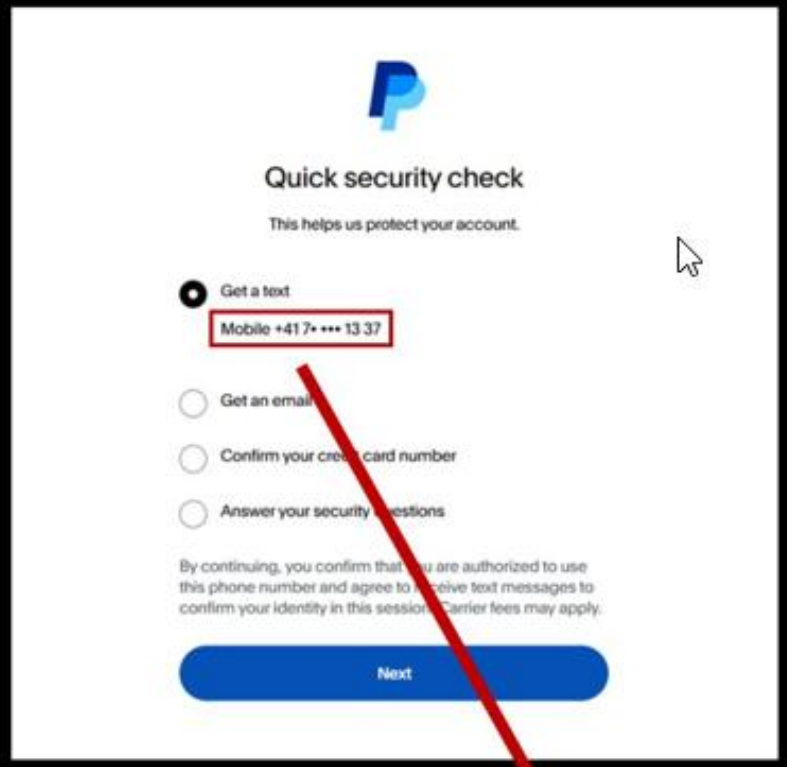


Reset link send to os**ch@os*****.ch**

Password Reset - PayPal

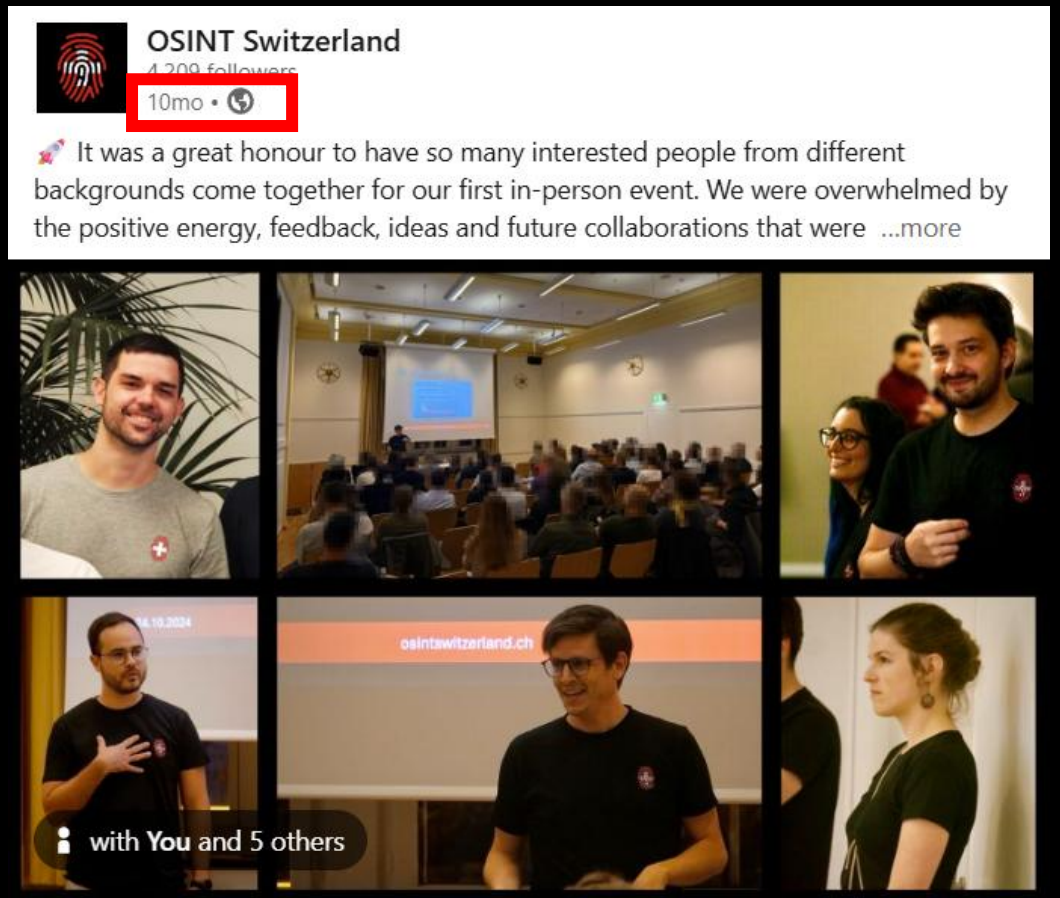


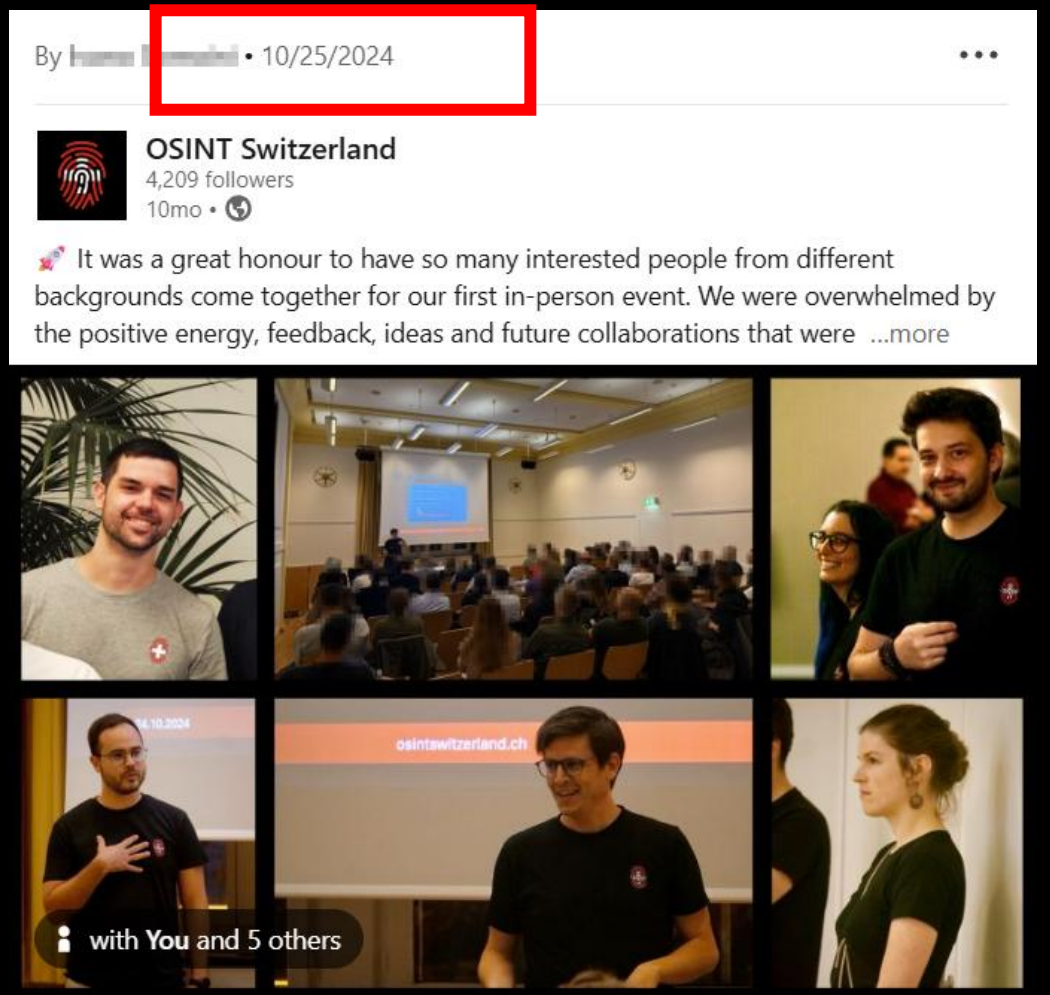
Password Reset – Combining Disclosed Digits



+417 00 13 37**

LinkedIn – Post Date





https://www.linkedin.com/posts/osint-switzerland_it-was-a-great-honour-to-have-so-many-activity-7255535227148681217-Ugt8/

LinkedIn – Post Date

10 months ago

https://www.linkedin.com/posts/osint-switzerland_it-was-a-great-honour-to-have-so-many-activit-7255535227148681217-Ugt8/

7255535227148681217

To binary

1100100101100001101011011011000111111011000011111000000000000001

41 “left-most” bits

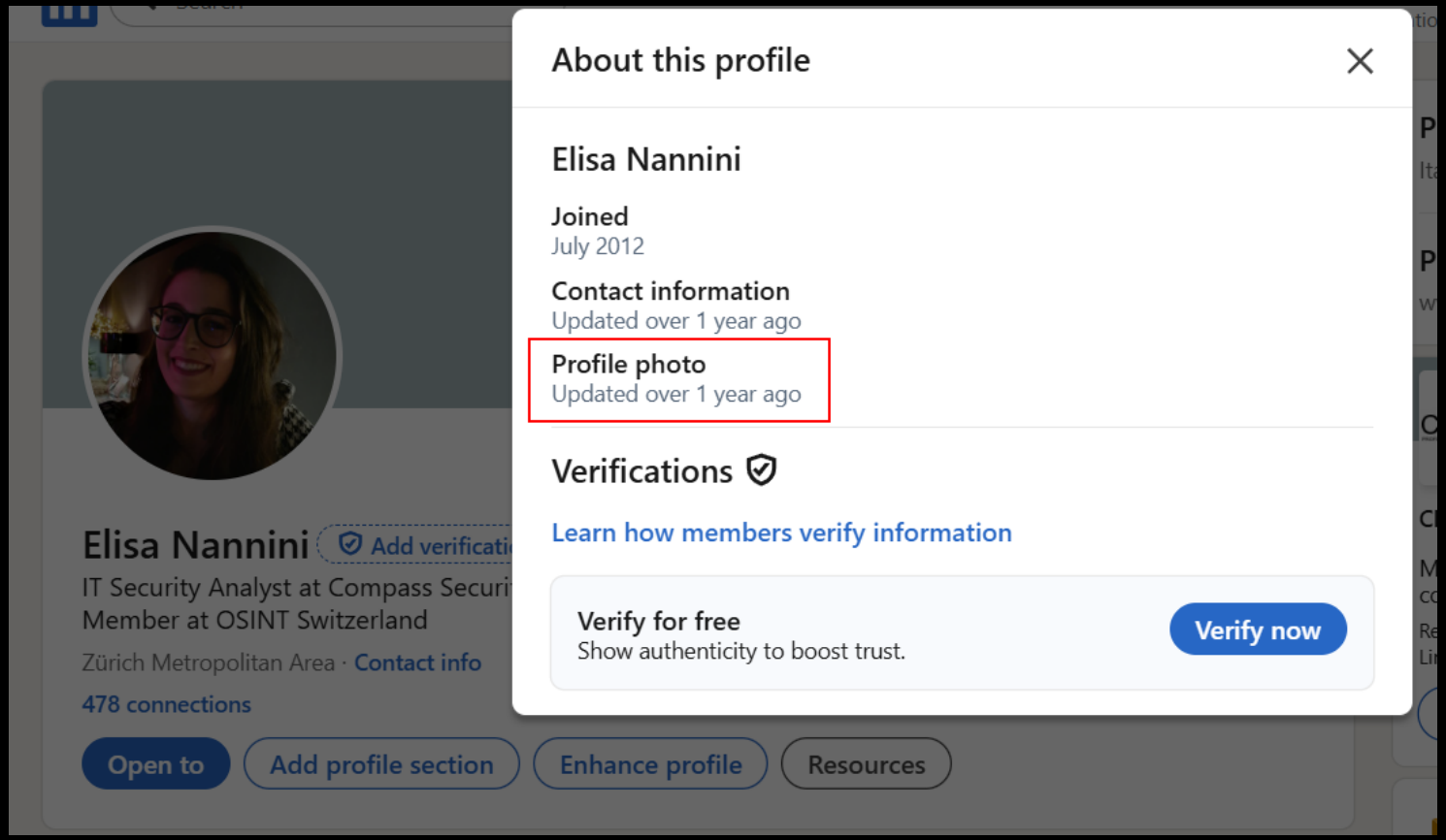
To decimal

1729854399478

Parse as Unix Timestamp

10/25/2024 13:06:39 GMT+0200

LinkedIn – Picture Date



LinkedIn – Picture Date

Right click on picture and Save as ...

Copy filename...

Parse filename as Unix Timestamp

1581081311426

↓

07. February 2020
13:15:11

1739395523747

↓

12. February 2025
21:25:23

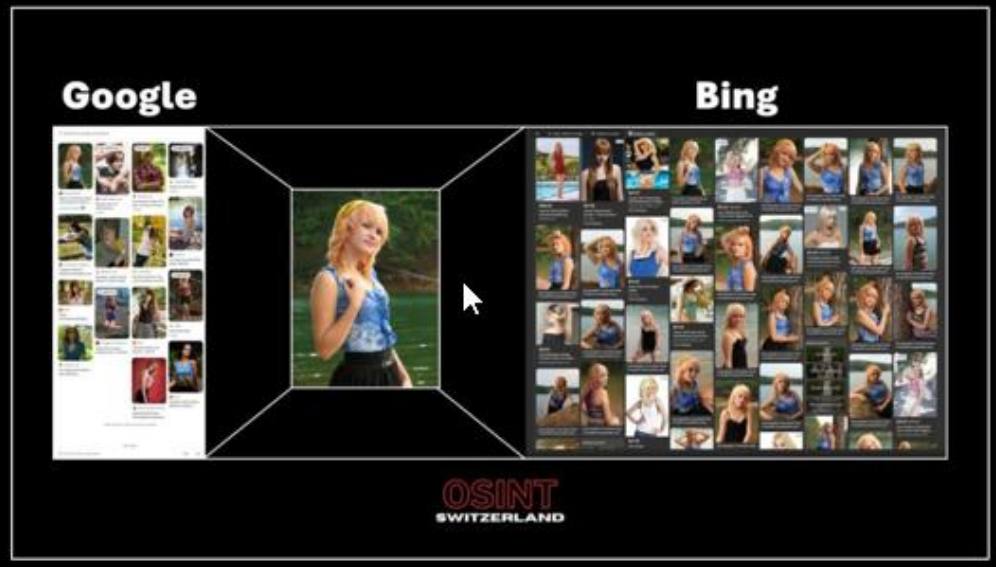
LinkedIn – Identify Date of Scheduled Post

Post published

26. November 2024 06:45:01

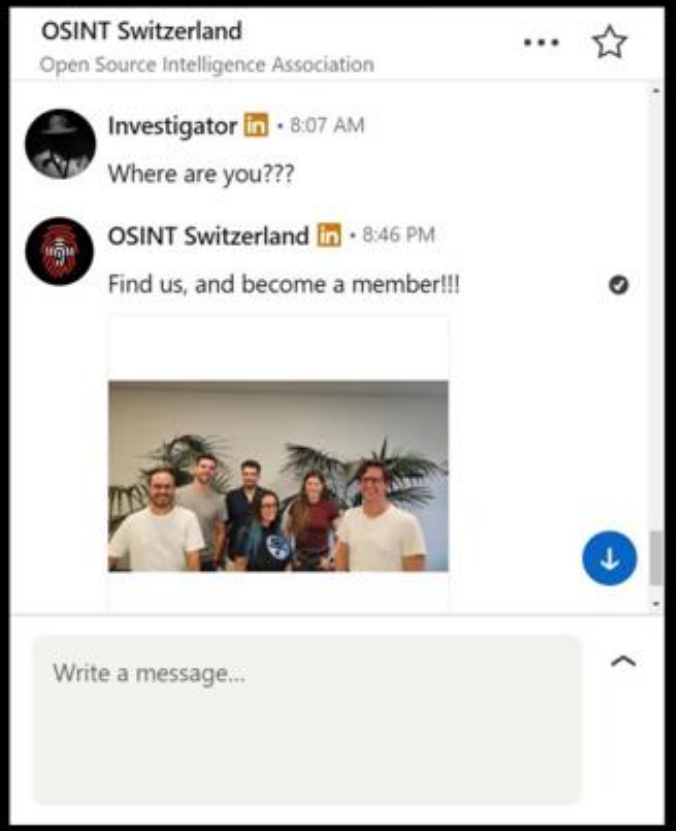
Picture uploaded

25. November 2024 22:26:53

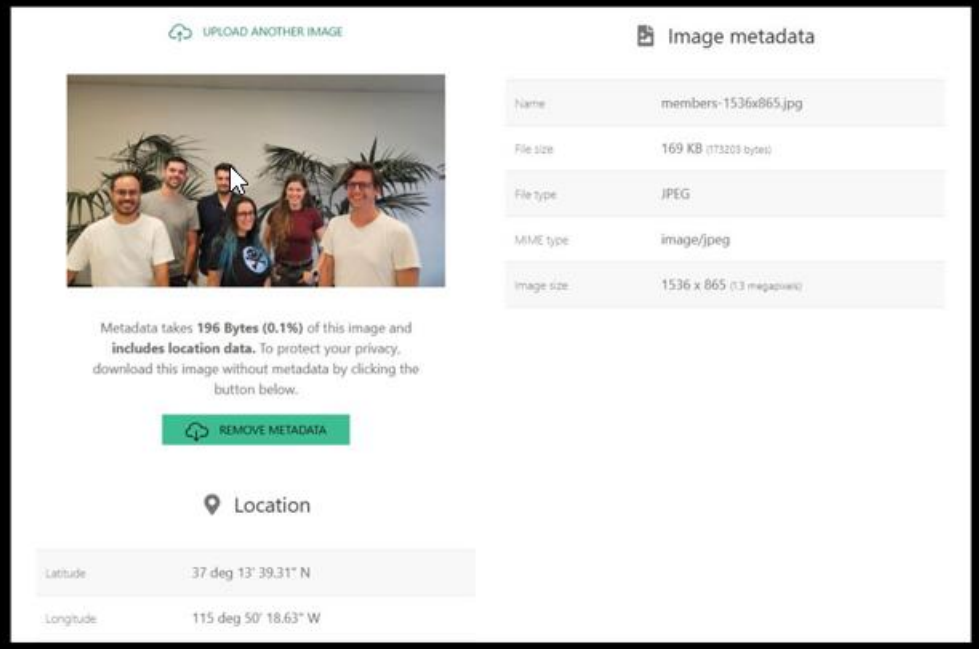


LinkedIn - Metadata

Images sent in LinkedIn messages...



... contain the original metadata



OSINT INDUSTRIES

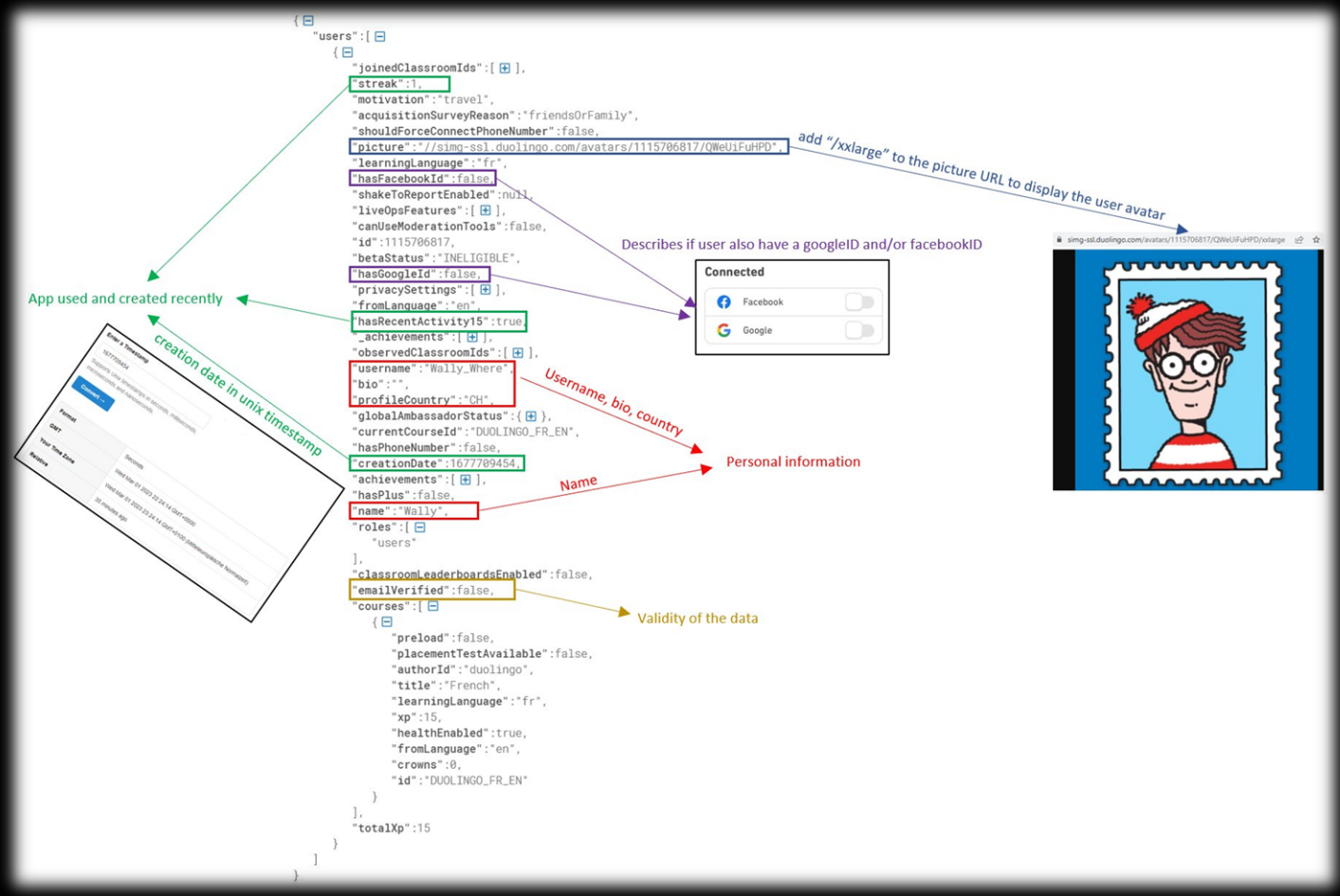
EPIEOS

MALTEGO

SOCIAL LINKS

SHADOWDRAGON

OSINT Tools – Reverse Engineering APIs



CARRY ON
FRONTIER Miles:
CONFIRMATION CODE:
BOARD FIRST
LAS --> SFO
Las Vegas to San Francisco
FLIGHT
F9 4401
BOARDING BEGINS
3:27PM
DEPARTURE
4:12PM
SAT. JAN 11, 2025
GATE
D16
ZONE
1
DOORS CLOSE
3:52PM
SEAT
12A
Sold by
Frontier Airlines
FRONTIER
BT 102746
SEQ 179
chris_hopkins • Follow
1,337,112 likes
January 12
Comments on this post have been limited.

Trip Confirmation Number: WY3I1Q

CHRIS HOPKINS
Date of Birth: xx/xx/xxxx
Frontier Miles Number: 27489307182

DARIA MARTINS
Date of Birth: xx/xx/xxxx
*Frontier Miles Number:*649123741012

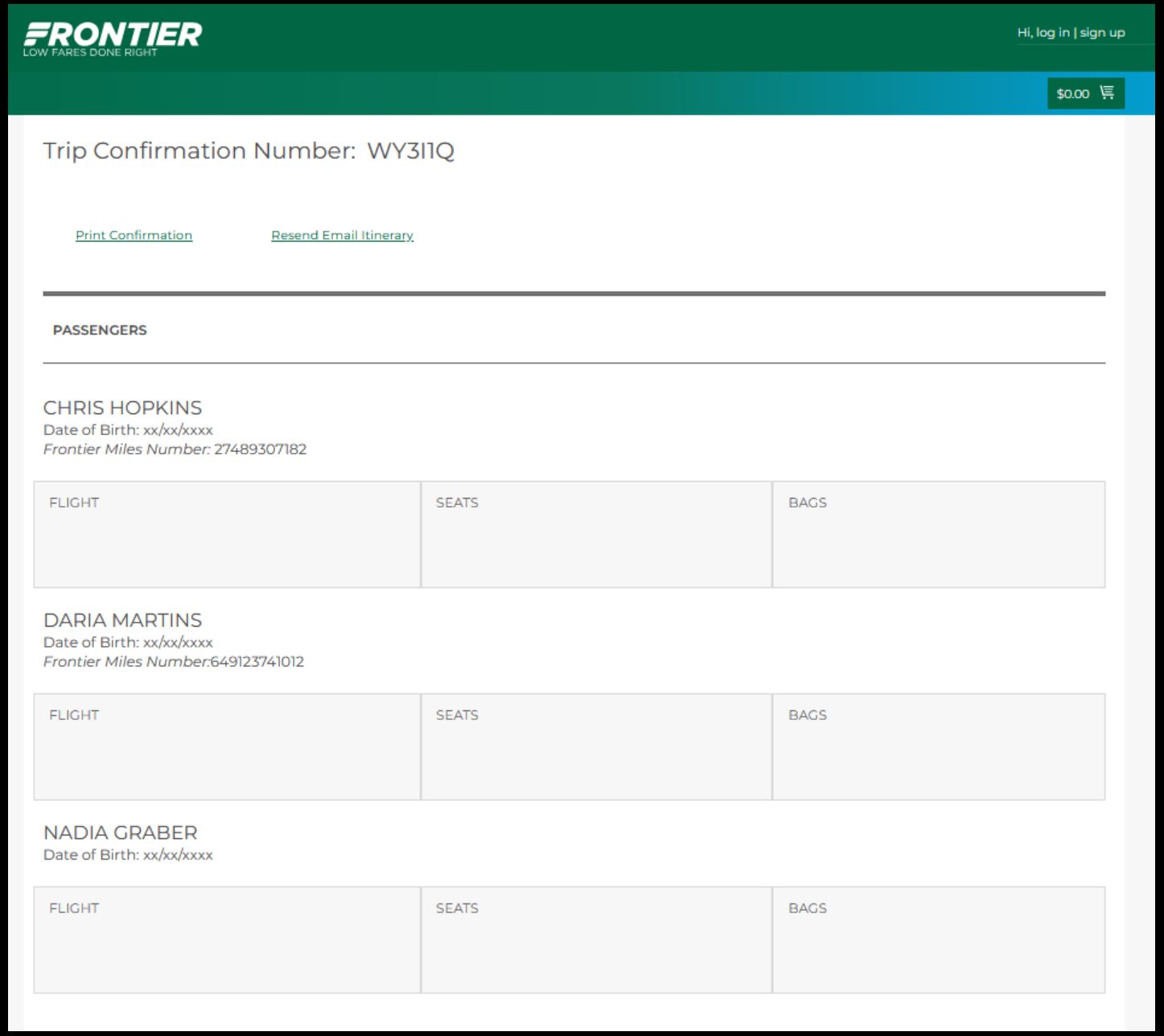
NADIA GRABER
Date of Birth: xx/xx/xxxx

CONTACT

CHRIS HOPKINS	W: 802-126-xxxx	Cxxxxxxxxxxxx@xxxxx.COM

PAYMENTS

Total: $752.94	American Express XXXXXXXXXX2309 **Exp. Date:** 02/28	**Purchase Date:** 01/08/25
Total: $154.00	Visa XXXXXXXXXXX1124 **Exp. Date:** 09/28	**Purchase Date:** 01/11/25
Total: ($752.94)	American Express XXXXXXXXXX2309 **Exp. Date:** 02/28	**Purchase Date:** 01/13/25
Total: ($154.00)	Visa XXXXXXXXXXX1124 **Exp. Date:** 09/28	**Purchase Date:** 01/13/25


FRONTIER
LOW FARES DONE RIGHT
Hi, log in | sign up
$0.00
Trip Confirmation Number: WY3I1Q
Print Confirmation
Resend Email Itinerary
PASSENGERS
CHRIS HOPKINS
Date of Birth: xx/xx/xxxx
Frontier Miles Number: 27489307182
FLIGHT
SEATS
BAGS
DARIA MARTINS
Date of Birth: xx/xx/xxxx
Frontier Miles Number:649123741012
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NADIA GRABER
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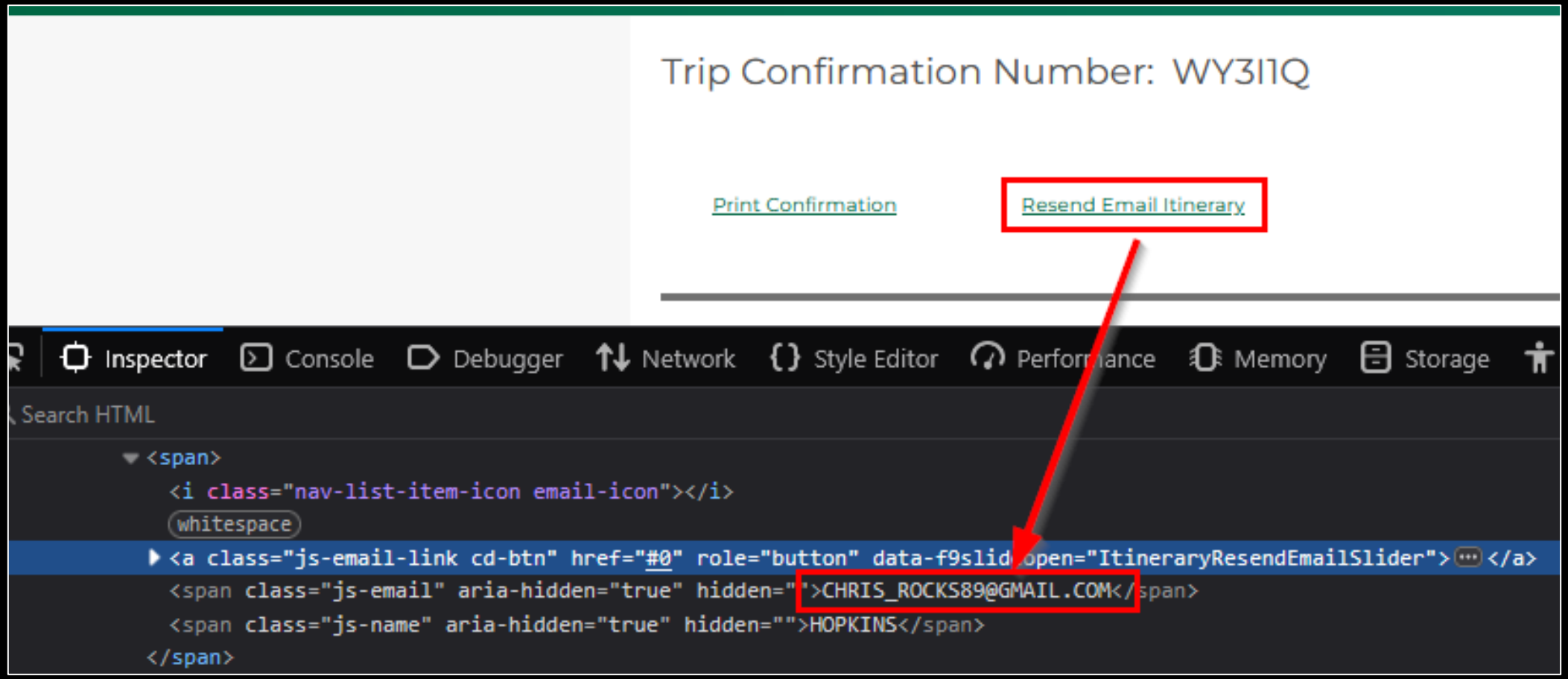
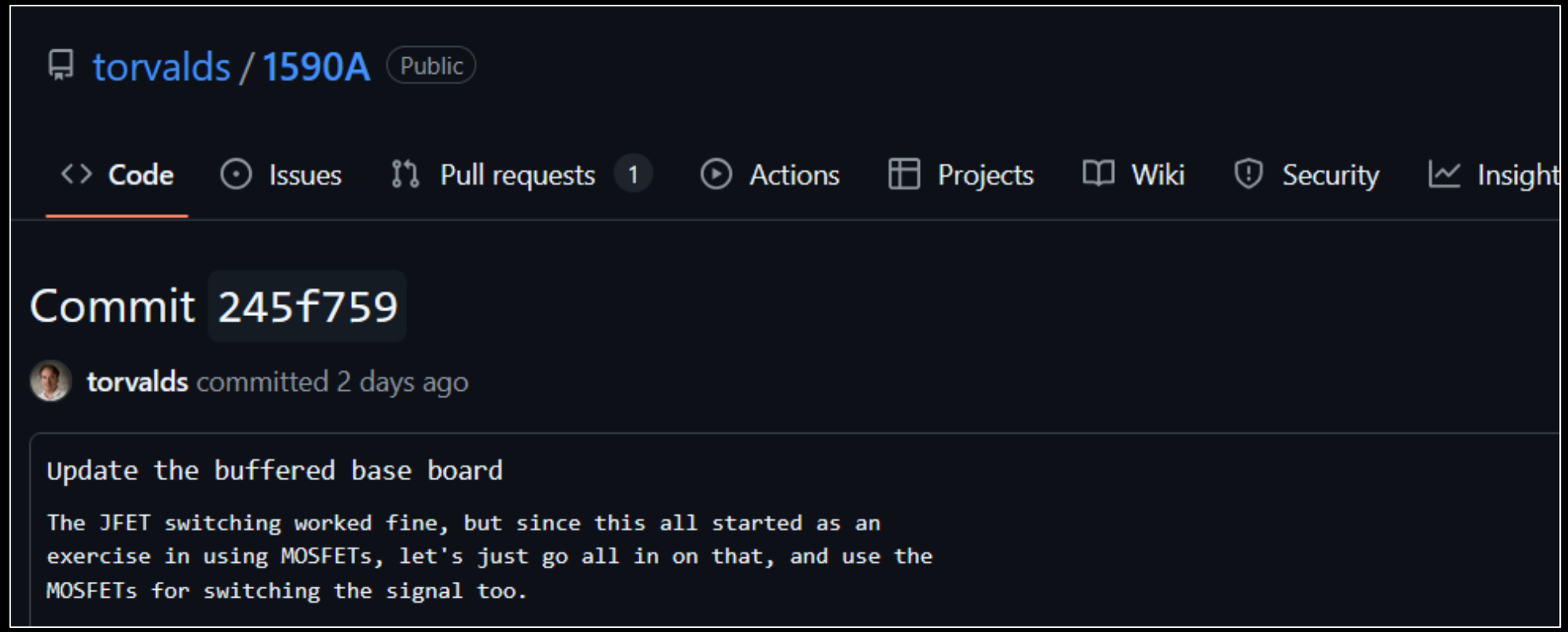
FLIGHT
SEATS
BAGS


Trip Confirmation Number: WY3I1Q
Print Confirmation
Resend Email Itinerary
Inspector
Console
Debugger
Network
Style Editor
Performance
Memory
Storage
Search HTML

whitespace

CHRIS_ROCKS89@GMAIL.COM
HOPKINS

https://github.com/torvalds/1590A/commit/245f7595e13c3b63c0932ca9b03752df6ab3114



https://github.com/torvalds/1590A/commit/245f7595e13c3b63c0932ca9b03752df6ab3114.patch

```
From 245f7595e13c3b63c0932ca9b03752df6ab3114d Mon Sep 17 00:00:00 2001
From: Linus Torvalds <torvalds@linux-foundation.org>
Date: Wed, 27 Aug 2025 11:43:17 -0700
Subject: [PATCH] Update the buffered base board

The JFET switching worked fine, but since this all started as an
exercise in using MOSFETs, let's just go all in on that, and use the
MOSFETs for switching the signal too.
```

A few abuse cases…

DAN SALMON SECURITY 06.26.2019 09:00 AM

I Scraped Millions of Venmo Payments. Your Data Is at Risk

Opinion: Venmo makes sending and receiving money a social affair. But those emoji-laden payment descriptions leave you exposed to cyberattacks.

ThreatDown
Powered by Malwarebytes

Products Pricing Partners Resources

The data were scraped from public profile information by using an exposed application programming interface (API). On March 2, a researcher called Ivano Somaini tweeted how one could take advantage of Duolingo's API to check if an email address is associated with a Duolingo account.

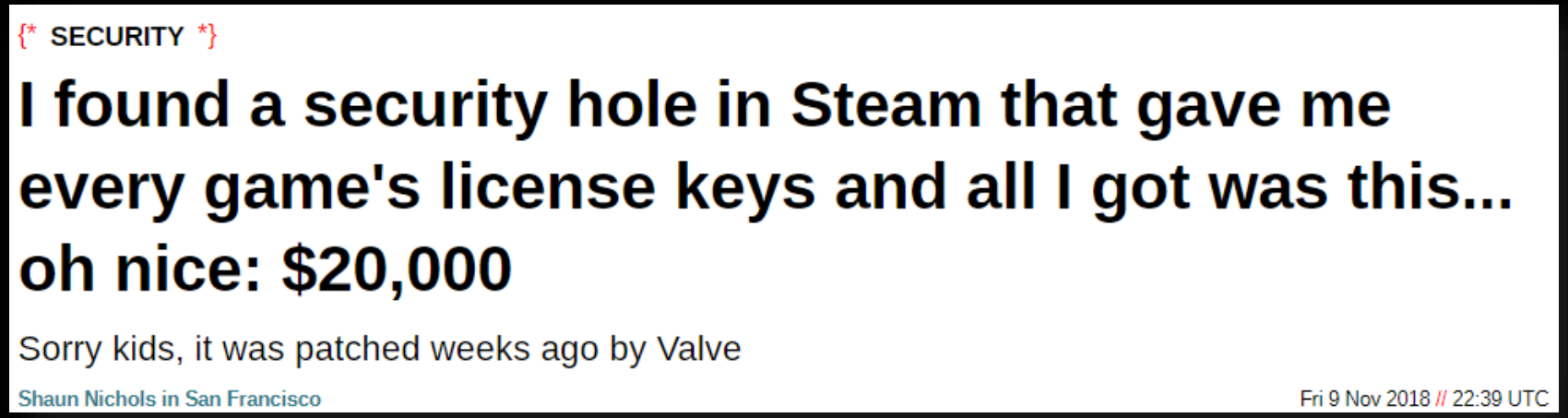
The API allows anyone to run a query by submitting a username or an email address to confirm if it is associated with a valid DuoLingo account. Bleeping Computer has confirmed that this API is still openly available to anyone on the web, even after its abuse was reported to DuoLingo in January.

Home › Application Security

U.S. Postal Service API Flaw Exposes Data of 60 Million Customers

By Kevin Townsend on November 26, 2018

Real-time data on: usps.com/?users=*



{* SECURITY *}

I found a security hole in Steam that gave me every game's license keys and all I got was this... oh nice: $20,000

Sorry kids, it was patched weeks ago by Valve

Shaun Nichols in San Francisco

Fri 9 Nov 2018 // 22:39 UTC

API: /partnercdkeys/assignkeys/

Remediations

- Privacy-aware when posting and developing
- Stripping metadata out of files uploaded
- Carefully review privacy settings in all apps
- Different usernames
- Aliases for emails

Thank You

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