

EATON ZVEARE



See all my projects, writeups, and software in more detail on my website: eaton-works.com

Experienced security researcher based in Sarasota, FL with a proven track record of finding high-impact API vulnerabilities in the world's largest organizations. Also a C# / .NET Windows desktop developer of more than 15 years with an interest in file systems, reverse-engineering, and game console technology.

WORK HISTORY

Senior Security Research Engineer at Harness

- ❖ Timeframe: March 2025 - Present
- ❖ Continuing the Traceable mission as part of the "Traceable by Harness" business unit.

Security Researcher at Traceable

- ❖ Timeframe (full-time): November 2023 – March 2025 (merged into Harness)
- ❖ Timeframe (contractor): April 2023 - November 2023
- ❖ At Traceable I am a member of the ASPEN Labs research team. I find vulnerabilities in the world's largest organizations and responsibly disclose them through VDPs and bug bounties. My work also helps key deals move forward through advanced Sonar scans and threat hunting in customer environments.

Director of Technology / Developer at Grape Intentions

- ❖ Timeframe: March 2016 - Present
- ❖ Grape Intentions is a wine club that gives a portion of your subscription fee to a charity of your choice. I built out the entire tech stack from day one and continue to handle day-to-day maintenance, development, security, and general operations for the Grape Intentions website and backend systems.

Owner / Developer at Eaton Works

- ❖ Timeframe: January 2009 – Present
- ❖ My website/personal brand and home to my projects. This is where I post breakthrough security research blogs.

Student Worker at WVU Classroom Technologies (CTec)

- ❖ Timeframe: October 2012 - May 2013
- ❖ Offered technical support to WVU faculty over the phone as part of the Classroom Technologies (CTec) team. My job was to help diagnose and fix classroom technology-related problems and check select classrooms on a weekly basis to ensure the technology was fully functional and problem-free.

SECURITY WORK & IN THE NEWS

Some of my security disclosures have made front page news. A few notable examples – see website for full list:

I'm Lovin' It: Exploiting McDonald's APIs to hijack deliveries and order food for a penny

- ❖ Publication Date: December 19, 2024
- ❖ A comprehensive analysis of critical API vulnerabilities in McDelivery. Covered by TechCrunch and LowLevelTV on YouTube (600k+ views). Also the #1 most upvoted post on Reddit r/netsec 2024.

CVE-2023-6483: Improper/missing API authentication in ADiTaaS v5.1

- ❖ Publication Date: December 18, 2023
- ❖ Full takeover of a SaaS service desk software. Opened the door to compromising more than a dozen companies. CVE issued.

Responsible disclosure of Honda power equipment / marine / lawn & garden dealer eCommerce platform takeover

- ❖ Publication Date: June 6, 2023
- ❖ The story was widely covered in the media in June 2022 with coverage on The Record, Bleeping Computer, SecurityWeek, The Hacker News, and more.

Responsible disclosure of exploitable Toyota CRM exposing Mexican customer information

- ❖ Publication Date: March 6, 2023
- ❖ The story was widely covered in the media in March 2023 and was a feature story on Automotive News with additional coverage on Jalopnik and more. Also mentioned in a subsequent feature story on Automotive News titled "Auto industry risks security breaches by underpaying white hat hackers".

Responsible disclosure of login/impersonation exploit in Toyota's global supplier management network

- ❖ Publication Date: February 6, 2023
- ❖ The story was widely covered in the media in February 2023 and was a feature story on Automotive News with additional coverage on Autoblog, PortSwigger, Bleeping Computer, and more. Also mentioned in a subsequent feature story on Automotive News titled "Auto industry risks security breaches by underpaying white hat hackers".

Responsible disclosure of Jacuzzi SmartTub network compromise

- ❖ Publication Date: June 20, 2022
- ❖ The story was widely covered in the media in June 2022 with coverage on New York Post, Gizmodo, Motherboard – VICE, TechCrunch, PortSwigger, and more.



REVERSE-ENGINEERING EXPERIENCE

15 years of reverse-engineering the Xbox 360 kernel, security, and system services have led to many interesting projects on the console and beyond.

How the Xbox 360 knows if your hard-drive is genuine

- ❖ Publication Date: January 24, 2023
- ❖ Blog post analyzing how the Xbox 360 enforces hard-drive authentication.

How Microsoft attempted to make the Xbox 360 dashboard load faster

- ❖ Publication Date: January 9, 2023
- ❖ Blog post analyzing how Microsoft improved Xbox 360 dashboard loading speeds.

Extra Large Xbox 360 Internal HDD Storage

- ❖ Publication Date: August 9, 2022
- ❖ Through one last comprehensive kernel patch and custom formatting tool, it is now possible to use up to 16 TB of space on an internal Xbox 360 HDD or SSD.

Extra Large Xbox 360 USB Storage

- ❖ Publication Date: April 6, 2022
- ❖ Through another comprehensive kernel patch and custom formatting tool, it is now possible to use up to 16 TB of space on a single USB storage device connected to an Xbox 360. This project also improves the overall performance of the Xbox 360 USB driver.

Reverse engineering and removing Pokémon GO's certificate pinning

- ❖ Publication date: July 31, 2016
- ❖ An analysis of Pokémon GO on Android's certificate pinning, and removing it to allow HTTPS request inspection.

Large Xbox 360 USB Storage

- ❖ Publication Date: December 27, 2012
- ❖ Back when Microsoft added USB storage support to Xbox 360 consoles, it was only possible to use up to 32 GB of space. Through a comprehensive kernel patch and a custom formatting tool, the 32 GB limit was broken and extended to 2 TB.



SOFTWARE DEVELOPMENT EXPERIENCE

More than 15 years of predominantly C# / .NET Windows desktop development experience have led to the development of many applications. A few notable publicly released applications:

FATXPLORER

- ❖ Developed: 2009 - Present
- ❖ A closed-source storage device explorer for Xbox storage devices. Active since November 2009 and still running strong with active users from many countries. FATXplorer is a C# .NET Framework WinForms application utilizing DevExpress components. Thousands of monthly users predominately in the United States and Brazil.
- ❖ Featured in a Callback Technologies case study.

XDON (Xbox Disk Over Network)

- ❖ Developed: 2025
- ❖ XDON (Xbox Disk Over Network) is an app that runs on your Xbox that exposes storage devices over the network. It provides the ability to perform IO operations at a raw level using a simple protocol.

DevTool

- ❖ Developed: 2012 - 2013
- ❖ Once-private Xbox 360 development PC companion. Publicly released in 2015, open-sourced in 2018.



EDUCATION

West Virginia University

- ❖ Studied Computer Science from 2012 - 2014. Chosen as a teaching assistant for 3 semesters (EDP course).



TOOLS, SERVICES, & PROGRAMMING EXPERIENCE

Tools, services, programming languages, and more I am proficient in and have a high level of understanding:

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| ❖ C# / .NET | ❖ EasyPost | ❖ Mailchimp |
| ❖ WinForms | ❖ Google Cloud | ❖ Postmark |
| ❖ Stripe | ❖ Fiddler | ❖ WordPress |
| ❖ Cloudflare | ❖ MySQL | ❖ Microsoft Office |
| ❖ Visual Studio | ❖ Windows Server | ❖ HTML, CSS, & JS |
| ❖ PowerPC Assembly | ❖ Internet Information Services (IIS) | ❖ Tailwind CSS |
| ❖ The Interactive Disassembler (IDA) | | ❖ CBFS Connect |