EATON ZVEARE

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

Experienced security researcher with a proven track record of finding high-impact API vulnerabilities in the world's largest organizations, governments, and automakers.

SECURITY RESEARCH HIGHLIGHTS

God Mode at the Border: Compromising Global Passport, Visa, and Immigration Systems

- Upcoming Black Hat Europe 2026 briefing where I will demonstrate how I took over international border control and immigration infrastructure (and helping fix it).

Unexpected Connections - How a vulnerability in obscure dealer software could have unlocked your car from anywhere

- Main stage presentation at DEF CON 33, August 10, 2025. Also presented at Car Hacking Village.
- Complete compromise of a top automaker's national dealer network. Full admin access to over 1,000 dealers was achieved as well as control over all customer cars. A TechCrunch homepage exclusive was obtained.

WORK HISTORY

Senior Security Researcher at Truffle Security

- Timeframe: August 2025 – October 2025
- Helping form the foundation for significant research projects before deciding to go independent.

Senior Security Research Engineer at Harness

- Timeframe: March 2025 – August 2025
- Continued the Traceable mission as part of the "Traceable by Harness" business unit.
- Presented "Unexpected Connections - How a vulnerability in obscure dealer software could have unlocked your car from anywhere" at the DEF CON 33 main stage.

Security Researcher at Traceable

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

Director of Technology / Developer at Grape Intentions

- Timeframe: March 2016 – November 2023
- 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.

📰 SECURITY WORK & IN THE NEWS

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

The AI Repo Man: Exploiting Agentic AI Debt Collection Platforms

- Publication Date: November 18, 2026
- Discovered vulnerabilities in Credit Nirvana platforms that exposed millions of collections records and call recordings. CVE-2026-110474 & CVE-2026-110475

Exploiting Volvo/Eicher's fleet management platform to gain control over all users and vehicles

- Publication Date: July 27, 2026
- Discovered vulnerable APIs culminating in the takeover of all users and vehicles.

Hacking India's largest automaker: Tata Motors

- Publication Date: October 28, 2025
- Discovered secrets leading to a 70 TB+ data leak, and a Tableau admin backdoor. Featured on front page articles by TechCrunch and Automotive News.

Intel Outside: Hacking every Intel employee and various internal websites

- Publication Date: August 18, 2025
- Hack of various internal Intel websites exposing various ways of downloading the info of all employees. Covered by The Register, SecurityWeek, and more.

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.

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 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.

Xbox 360 Storage Enhancement projects

- Created Xbox 360 kernel extensions to extend USB and SATA drive support from 2 TB to 16 TB.
- Created world-first SSD flashing utility to enable Xbox 360 SSD support for the first time in 20 years.

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.

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.

💻 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 WinForms application utilizing DevExpress components. Thousands of monthly users predominantly 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:

- C# / .NET
- WinForms
- Visual Studio
- PowerPC Assembly
- The Interactive Disassembler (IDA)
- Google Cloud Platform
- Fiddler & Burp Suite
- HTML, CSS, & JS
- Tailwind CSS