Enzo Genovese

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SKILLS

- C++, C#, Python, Javascript, Assembly, Batch, HTML, .NET, SQL, Git, Tensorflow, Golang, Vue
- Operating Systems, Backend & Frontend Development, Software Security, Game/App Development

WORK EXPERIENCE

One Step GPS: *Software Security Engineer* 01/2025 - Current

- Found and reported **19 vulnerabilities** (**13 Critical, CVSS 9.0+**) on a multi-tenant SaaS platform serving 100,000+ customers, including a **CVSS 10.0** authentication bypass; built PoCs and drove remediation.
- Led auth and SSO security, identifying account-takeover vectors across JWT, SAML, and password-reset flows.
- Found and remediated a critical **unauthenticated SQL injection**; shipped a root-cause fix that **hardened ~22 endpoints** at once.
- Chained an SSRF into **remote code execution (RCE)** in an internal service; also found and fixed path traversal issues.
- Audited all public APIs for BOLA/IDOR pre-launch and added authorization tests to prevent regressions.
- Remediated a **cross-tenant stored XSS** chain via parameterized queries, server-side validation, and safe rendering; presented findings to engineering leadership.

Swiftrix: *Full-Stack Software Engineer* 03/2024 - Current

- Engineered a backend system that optimized gaming performance for over **15,000** customers' PCs.
- Pioneered a process to optimize AMI motherboard BIOS through NVRAM manipulation at the kernel level compatible with over **98%** of commercial desktops.
- Devised server-side endpoints that securely proxy critical functionalities, maintaining obscured operations while serving data to over **15,000** clients.
- Secured a strategic partnership with Microsoft to launch the app in the open market.

Abyssal Labs: *Founder & Developer* 01/2024 - 0**3**/2024

- Built a Windows performance-optimization tool backed by a manually mapped (kdmapper) kernel driver that modified AMI firmware/NVRAM variables; sold to and run by 1,000+ users.
- Implemented a real-time secure authentication system that monitors and mitigates threats effectively.
- Enhanced system reliability under heavy load by integrating AWS Load Balancing with Cloudflare, supporting over **1,000** simultaneous users.

Independent Security Research: *Malwarebytes Dynamic-Analysis Study* *12/2023 - 01/2024*

- Independently researched Malwarebytes' dynamic/behavioral analysis engine as a personal security project.
- Identified an evasion gap: code hidden in a routine that only a VEH handler decrypted at runtime was never inspected or flagged by the engine.
- Built an end-to-end proof-of-concept of the bypass using software ICE breakpoints and VEH manipulation — exactly the evasion class an anti-cheat must detect.

EDUCATION

Chaminade College Preparatory - High School Diploma **Graduated 2024**

- **AP Computer Science**
- **AP Computer Science Principles**