

Gouki Williams

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Computer Science student at Mt. San Jacinto College pursuing transfer to CSUSB, focused on vulnerability research, binary exploitation, and reverse engineering. CompTIA Security+ certified, with published research on discrepancies between checksec's NX verdicts and Linux kernel stack-execution behavior.

SECURITY RESEARCH

- Identified false assurance in checksec's NX detection across four builds using crafted ELF binaries with duplicate PT_GNU_STACK headers and non-standard flag values.
- Traced Linux kernel ELF-loading semantics to binfmt_elf.c and analyzed four distinct NX detection algorithms, finding that none reproduced the kernel's last-header-wins behavior.
- Built a runtime stack-executability harness, published reproducible Docker-based tests and crafted ELF samples. Reported findings and proposed fixes upstream (checksec#357).

TECHNICAL SKILLS

- **Exploitation:** ROP chains, ret2libc, address leaks and GOT-based information disclosure, ASLR bypass, null-free shellcode, heap exploitation (tcache poisoning, safe-linking)
- **Reverse Engineering:** x86-64 assembly, ELF internals and loader behavior, static/dynamic analysis, custom file-format analysis
- **Programming:** C, Python, Java, Bash
- **Tools:** Binary Ninja, GDB/pwndbg, readelf, ROPgadget, Docker, Wireshark, Burp Suite, Kali Linux
- **Languages:** English, Japanese (fluent)

PROJECTS & TRAINING

- **pwn.college:** Yellow Belt in Reverse Engineering and Binary Exploitation.
- **Pocket CTF (in progress):** Developing a portable, battery-powered Raspberry Pi appliance that hosts offline binary exploitation challenges over its own Wi-Fi access point for cybersecurity club training.
- **District-wide CTF:** Founded and organized a competition to expand the local student cybersecurity community.

EDUCATION

Mt. San Jacinto College | Computer Science, Associate in Science for Transfer (AS-T) Expected May 2027
Transfer pathway: B.S. Computer Science, Cybersecurity concentration, California State University, San Bernardino

Great Oak High School | Temecula, CA Graduated June 2026
IB Diploma, GPA: 3.82 unweighted / 4.34 weighted
Calculus III, Linear Algebra (dual enrollment, CSUSM)

CERTIFICATIONS

CompTIA Security+ (SY0-701) | August 2026

LEADERSHIP & AWARDS

- **Inland Empire Mayors Cyber Cup:** 1st Place, 2026; recognized by the City of Temecula.
- **National Cyber League, Fall 2025:** 22nd/1,046 high school individuals; 114th/7,876 overall individuals; 7th/446 high school teams; 31st/4,214 overall teams.
- **CyberPatriot | Vice President & Instructor:** Taught Linux system administration and hardening; mentored competitors for CyberPatriot, National Cyber League, and Mayors Cyber Cup.