

Marshall Whittaker

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INTRODUCTION

Information security contractor; interested in computer security, system design, ML and AI, excited to join a team where their skills in offensive red team, defensive blue team, and exploit development shine.

SKILLS

Technical: Code Review, Pentesting, Fuzzing, TCP/IP, Windows, Linux, DNS, Suricata, IPTables

Programming: C, C++, Ruby, Python, JavaScript, Bash, Perl

Tools: Metasploit, Nikto, Nessus, WPScan, Nmap, masscan, TCPdump, Wireshark, OpenSSL

Professional: Written communications, exploit research and development

EXPLOIT DEVELOPMENT

[CVE-2010-2626](#) (**Webmin**) (Dir traversal to session hijack to authenticated root RCE)

[CVE-2016-10401](#) (**Zyxel Modems**) (Took apart firmware and cracked passwords)

[CVE-2017-5816](#) (**HPe iMC PLAT**) (Command injection in service restart)

[CVE-2018-17336](#) (**UDisks2**) (String Format in log generation)

[CVE-2019-12881](#) (**Linux kernel**) (NULL Pointer Dereference)

[CVE-2019-15947](#) (**Bitcoin-qt**) (Design flaw)

[CVE-2021-3560](#) (**Polkit/dbus**) (Race condition LPE)

PROJECTS

oxasploits, A collection of my exploits and vulnerabilities

A collection of CVE's for vulnerabilities discovered and have written exploits for:

<https://github.com/oxagast/oxasploits>.

Franklin, A ChatGPT backed IRC bot

I have designed an IRC bot in perl that has hooks into the ChatGPT API and responds realistically with accurate information, while coming off in an almost human tone, using the Large Language Model, see it here: <https://github.com/oxagast/Franklin>.

Chipmonk, A NUT UPS visual power dialogs interface

An interface into the NUT middleware for Uninterruptible Power Supplies for visual notifications of power line events, such as low battery, or line power back online. View the source code at:

<https://github.com/oxagast/chipmonk>.

Published, Designing an OpenAI powered IRC Chat Bot for Fun and Profit

I am a published author in 2600 The Hacker Quarterly, where I wrote an article on designing a chatbot backed by OpenAI's GPT3.

Study, PNPT

Studying to take a network security exam from TCM Sec. This covers Windows and Linux, plus network security, penetration testing, and using tools that would be used on a security audit.

WORK EXPERIENCE

Security Analyst and Technical Writer, Arden, NC - May 2020 - Current

Writing articles at <https://oxasploits.com> about various information security topics, CVE's I've worked on exploits for, as well as general Red and Purple team topics.

Freelance Developer / Github Contributor, Asheville, NC - January 2014 - Current

Develop security tools with applications in exploit development and vulnerability assessment. My work can be found on GitHub: <https://github.com/oxagast>.