

Joey Perme

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Professional Experience

BitSight

November 2023 - Present

Vulnerability Researcher

- Perform technical research on latest n-day vulnerabilities.
- Develop capabilities for core business product to test vulnerability status of worldwide devices.
- Author scripts and software changes to improve research team's productivity.

Nuro

November 2021 - May 2023

Security Engineer (Offensive Security)

- Assessed and developed vulnerabilities on hardware, software, and infra of autonomous vehicles.
- Delivered PoCs for novel exploit concepts based off reverse-engineered hardware and software.
- Provided and drove expert remediation to cross-org stakeholders prior to major company milestones.

AWS (Amazon Web Services)

June 2021 - November 2021

Security Engineer

- Threat modeled new internal and external features for one of AWS's most profitable divisions.
- Worked with service teams to mitigate and learn from potential vulnerabilities.
- Participated in on-call rotations for imminent cross-org security reviews.

Alarm.Com

July 2020 - May 2021

Security Engineer

- Discovered and remediated IoT vulnerabilities with reverse-engineer-informed pentesting.
- Performed chip desoldering, firmware dumping, custom file unpacking, and reverse engineering.
- Operated IoT devices in an instrumented environment to analyze and assess network traffic.
- Summarized findings in proof-of-concepts and write-ups presented to management stakeholders.
- Participated in on-call rotations and incident response as on-call security point-of-contact.

CERT at SEI, Carnegie Mellon University

January 2020 - June 2020

Associate Security Researcher

- Researched the functionality of emerging and existing technologies at all constituent logical layers.
- In support of stakeholders throughout the US Government, advised on the implications of findings.
- Delivered concise, rigorous prototype implementations and formal reports.

Skills & Technologies

Python, Go/Golang, C, Java,
Javascript, HTML, CSS

Linux, Burp Suite, mitmproxy,
Wireshark, Metasploit, Ghidra,
IDA, Jeb, jadx

Pentesting, Reverse
Engineering, Threat Modeling,
Soldering & Desoldering,
Firmware Analysis

Education

University of Dayton

Master of Computer Science, 3.833

December 2019

Bachelor of Science, Computer Science, 2.918

May 2016

Offensive Security EXP-200 (OffSec Certified Professional/OSCP)

In-Progress

Offensive Security EXP-301 (Windows Usermode Exploit Development/OSED)

In-Progress

Personal Interests & Achievements

Outstanding Service to the Department – University of Dayton CPS Dept.

May 2016

Given to the student who goes above and beyond to help the department and the students.