Wil Gibbs
Assistant Researcher at SEFCOM

contact

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languages
english first language
spanish literate
japanese semi-fluent

programming
Python, Bash, Java
C, C++, x86, x64,
Mips, MySQL,
Javascript,
CSS3 & HTML5

software
Burp Suite, IDA Pro,
Vim, Ghidra, Angr,
Docker

education

2018–2020	**Masters** of Computer Science - In Progress	Arizona State University

Who Killed The Canary:
        An Exploration into Native Android Security Protections

This thesis explores the protections given to native libraries in Android, where they are sufficient and where they are deficient.

2015–2018	**Bachelor** of Science Computer Science	Arizona State University

Specialization in Cyber Security

experience

2017–Now	**SEFCOM**	Tempe, Arizona

Research Assistant

Worked on several different research projects regarding binary analysis. Specifically with development on AFL that allow users to fuzz Docker hosted binaries, including network binaries.

Helped develop a project to statically determine difficult to reach sections of code given a control flow graph produced by Angr. The goal of this project was to combine the results with Driller in hopes of increasing fuzzing speeds.

Current Project: determining the wide-scale exploitability of Android applications through native libraries.

2016–2017	**Proto-Dash**	Tempe, Arizona

Partner

Started an Android app development company with several successfully publish apps on the Google Play store.

awards

2015	**Scholarships**	Ira A. Fulton School of Engineering, Arizona State University

Provost's Scholarship - Awarded to students with incoming academic excellence.

2016	**Fulton Undergrad Research Initiative**	Arizona State University

Awarded a grant for my presented research.

2016	**NSA Codebreaker Challenge**	

Awarded a certificate of completion signed by the current head of the NSA.

interests

CTFs Capture The Flag Competitions

I regularly compete in CTFs on both the pwndevils and shellphish CTF teams.

2016–2019 **Pwndevils Captain** Tempe, Arizona

I was the leader of the pwndevils CTF team during this period.

2019 **CodeBlue Finals** Tokyo, Japan

Participated in the CodeBlue CTF finals as a shellphish member.

2018 **iCTF** The University of California, Santa Barbara

Created some of the infrastructure that the 2018 iCTF was played on by over 300 teams from around the world.

2018 **DEFCON** Las Vegas, Nevada

Hosted the DEF CON 26 CTF, the "grand championship of hacking", alongside Order of the Overflow.

2018 **Whitehat Finals** Hanoi, Vietnam

Participated in the Whitehat CTF finals as a pwndevils member.