

# WilGibbs

Assistant Researcher at SEFCOM

## contact

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## languages

english mother tongue  
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.