Sam Damashek

Programmer & Security Researcher

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Web & Git
sdamashek.me
github.com/sdamashek

Programming
Python, C, Go

C++, Java, Rust
HTML, CSS, JS

Flask, Django
Android

MySQL

OS Preference
Linux ★★★★★
Windows ★★★☆☆
MacOS ★★★★★

Education

2017 - *2020* **Bachelor of Science in Computer Science** Carnegie Mellon University
Second-year. Expected 3 year graduation. GPA: 4.0 (2x Dean's List)
Concentration in Security and Privacy
Activities: PPP (Computer Security), Moot Court (Law/Debate)

Experience

05/18 - 08/18 **Software Engineer, Tools and Infra. Intern** Google, Sunnyvale, CA
Summer intern on Cloud EndProd team. Interfaced with Google-internal machine management systems to provide a machine health dashboard written in Go. Had a direct positive impact on machine pools managed by testing teams. Participated in a successful offensive security exercise with the security assessments team.

08/18 - 12/18 **Intro to Computer Systems (15-213) TA** CMU, Pittsburgh, PA
Selected as 1 of 20 Teacher's Assistants for the core CS class Introduction to Computer Systems. Leads a recitation.

06/15 - 08/17 **Security Research Intern** Two Six Labs, Arlington, VA
Technical and research work on several computer network operations projects. Technologies used: C++, Protocol Buffers, Android (Java), Python. Expanded QEMU software emulation to Windows 64-bit as part of implementing reliable 64-bit Linux and Windows support in a large binary analysis project.

09/13 - 06/17 **Student Sysadmin** Thomas Jefferson HSST, Alexandria, VA
Volunteered to help maintain production school webserver, mailserver, and computer systems lab. Oversaw other students as co-lead and lead of the program. Employed by school district starting early 2016 to temporarily replace staff lead.

Awards

08/2018 **Second place (PPP team)** DEFCON CTF 2018 Finals
In-person at DEFCON security conference in Las Vegas, NV

04/2017 **Second place (team)** PicoCTF 2017 Competition
Organized by Carnegie Mellon University

08/2015 **Ninth place (Shellphish team)** DEFCON CTF 2015 Finals
In-person at DEFCON security conference in Las Vegas, NV

04/2015 **Finalist, Junior Security Competition** CODEGATE 2015
Held in-person by City of Seoul in South Korea

Projects

03/2018 **Chip8 CPU Emulator** GitHub
Wrote an emulator for the chip8 CPU architecture in Rust.
https://github.com/sdamashek/chip8

09/2016 **Received Rewards for Multiple Yahoo RCE Vulns** Yahoo Mail, Flickr
Reported through HackerOne, received >$20,000 in bug bounties

07/2016 **Running Windows 64-bit in QEMU Emulation Mode** Two Six Labs
https://www.twosixlabs.com/running-windows-64-bit-in-qemu-emulation-mode/

05/2016 **TJCTF 2016** Thomas Jefferson HSST, Alexandria, VA
Designed and executed an architecture plan for the national TJCTF computer security competition using Microsoft Azure and Docker