Samuel Damashek
Programmer & Security Researcher

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Web & Git
sdamashek.me
github.com/sdamashek

Programming
Python, C

Java, C++, Go
HTML, CSS, JS

Flask, Django
Android

MySQL

Networking
Cisco IOS
HP Procurve
Juniper JUNOS

TCP/IP

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

Experience

05/18 - 08/18 **Software Engineer, Tools and Infrastructure 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.

06/15 - 08/17 **Security Research Intern** Two Six Labs (formerly Invincea 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 HS for Science and Technology, 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.

08/16 - 01/17 **Programming Lead** Averia
Coded an iOS application using Swift and a corresponding Flask web application to help create a cost-effective concussion detection system using an iPhone and a cardboard headset. Won first place at MLH Prime 2016 Hackathon.

Education

2017 - 2021 **Bachelor of Science in Computer Science** Carnegie Mellon University
GPA: 4.0 (2x Dean's List)
Activities: PPP, Moot Court (law/debate)

2013 - 2017 **Advanced Studies Diploma** Thomas Jefferson HS for Science and Technology

Awards

11/2017 **Top 16 (team)** University of Akron, OH
Undergraduate Moot Court regional tournament

04/2017 **Second place (team)** Carnegie Mellon University
PicoCTF 2017 computer security competition

11/2016 **Most Innovative Pediatric Device Companies** Children's National Health System
Top 12 for Averia

08/2015 **Ninth place (team)** DEFCON CTF 2015 Finals
With Shellphish (UCSB) team

04/2015 **Finalist, Junior Security Competition** City of Seoul, South Korea
CODEGATE 2015

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 RCE Vulns** Yahoo Mail, Flickr
Reported vulns through HackerOne, received >$20,000 in bug bounties

07/2016 **Running Windows 64-bit in QEMU Emulation Mode** Invincea Labs
https://www.invincealabs.com/blog/2016/07/running-windows-64bit-qemu/

05/2016 **TJCTF 2015** Thomas Jefferson HS for Science and Technology, Alexandria, VA
Designed and executed an architecture plan for the national TJCTF computer security competition using Microsoft Azure and Docker