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Samuel Damashek

Computer Programmer & Security Researcher

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Web & Git
sdamashek.me
github.com/sdamashek

Programming
Python, C

Java, C++
HTML, CSS, JS

Flask, Django
Android

Networking
Cisco IOS
HP Procurve
Juniper JUNOS

TCP/IP

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

Experience

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. Developed an Intrusion Prevention System fingerprinting tool used in a large Government-contract project. Designed a data intake system for a Government-contract project using cross-platform C++, Protocol Buffers, and Android. Found and reported side channel and algorithmic complexity vulnerabilities as part of the DARPA STAC project. 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. Assisted in implementation of long-term company-wide infrastructure projects.

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](#)

Main Subjects: Computer Science

2013 - 2017 **Advanced Studies Diploma** [Thomas Jefferson HS for Science and Technology](#)

Main subjects: Computer Science, Mathematics

*Artificial Intelligence, Parallel Computing, Computer Vision
Multivariable Calculus, Linear Algebra, AP Physics C*

Awards

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

10/2014 **Sixth place (team)** [Carnegie Mellon University](#)

PicoCTF 2014 computer security competition

Projects

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