

Christopher Cerne

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Education

Virginia Tech

2017 - 2021

B.S. Computer Science, 3.75 GPA

Graduated in May 2021. Vice President of the Cyber Security Club (2020 - 2021). Webmaster of the VPI Cave Club (2019 - Present). Brother of the Theta Tau professional fraternity.

Technical Skills

C, C++, Rust
x86, ARM, MIPS
Vulnerability Research

Python2.7, Python3
Git
Web Development

Java
Linux Kernel
Docker

Job Experience

CS @ Virginia Tech

Aug 2020 - May 2021

Undergraduate TA for CS3214

Worked under the Virginia Tech Computer Science Department, fulfilling 10 hours a week as an undergraduate TA. Helped students in one of the most challenging courses in the CS curriculum, Computer Systems. Learned how to isolate bugs in student code and effectively teach systems-level concepts.

Virginia Tech ITSO

Sep 2019 - Dec 2020

Red Team Researcher

Evaluated the security of devices on the Virginia Tech Network. Developed tooling to facilitate embedded device research. Found numerous high-impact vulnerabilities and quickly notified impacted departments.

RedLattice

May 2019 - Aug 2020

Vulnerability Research Intern

In the first summer, researched and found security vulnerabilities in various commonplace embedded devices and developed tooling. In the second summer, gained experience with JavaScript Core and V8 vulnerability research.

Focal Point Technologies

Jun 2017 - Aug 2018

IT Intern

In the first summer, worked on a team to develop a mobile application from scratch. In the second summer, used microcontrollers to perform various electronic tasks and collect data.

Leadership and Awards

Cyber Security Club @ VT

Sep 2020 - May 2021

Vice President

Organized events for the Cyber Security Club at Virginia Tech. Gave interesting technical presentations, including a presentation on attacking embedded devices. Helped the club fundraise by acquiring sponsorships.

Andor Assembly Competition

Aug 2019

Second Place

Singlehandedly represented Virginia Tech in the University of Nebraska's Andor Assembly Programming Competition. The competition focused on x86, ARM, and RISC assembly.