

# CHRISTOPHER CERNE

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LinkedIn – <https://www.linkedin.com/in/cernec1999/>

**OBJECTIVE** | To secure an internship in information technology for the summer.

**EDUCATION** | **VIRGINIA TECH, BLACKSBURG, VA**

BACHELOR OF SCIENCE: COMPUTER SCIENCE, 3.68 GPA

Expected to graduate in May 2021. Joined the Virginia Tech Cyber Security Club (September 2017 – Present). Webmaster of the VPI Cave Club.

**LOUDOUN VALLEY HIGH SCHOOL, PURCELLVILLE, VA**

Led a newsmagazine publication. Competed in a nationwide cyber security competition. Competed in computer programming competitions.

**SKILLS** |

Java  
C / C++  
PHP / HTML / CSS

Python  
x86 / ARM Assembly  
Git

Linux Kernel  
Vulnerability Research  
SQL

**EXPERIENCE** | **UNDERGRADUATE TA VIRGINIA TECH COMPUTER SCIENCE DEPT**

FALL 2020 – PRESENT

Worked under the Virginia Tech Computer Science Department, fulfilling 10 hours a week as an undergraduate TA. Helped students in CS3214, Computer Systems. Learned how to isolate bugs in student code and effectively teach systems-level concepts.

**STUDENT RESEARCHER VIRGINIA TECH IT SECURITY OFFICE**

FALL 2019 – PRESENT

Evaluated the security of devices on the Virginia Tech Network. Developed tooling to facilitate embedded device research.

**VULNERABILITY RESEARCH INTERN REDLATTICE INC.**

MAY 2019 – AUG 2020

Researched and found security vulnerabilities in various commonplace embedded devices. Developed tooling to find such exploits. Experience with JavaScript Core and V8 vulnerability research.

**IT INTERN FOCAL POINT TECHNOLOGIES**

JUN 2017 – AUG 2017, JUN 2018 – AUG 2018

Developed a mobile application using the Ionic Framework. Gained experience in AWS Cognito, DynamoDB and AWS API Gateway. Used microcontrollers to collect and process data.

**IT INTERN AMERICAN PUBLIC UNIVERSITY SYSTEM**

JUN 2016 – DEC 2016

Learned corporate tools such as Active Directory and SharePoint. Designed web pages and learned SQL.

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## LEADERSHIP & AWARDS

### **VICE PRESIDENT VIRGINIA TECH CYBER SECURITY CLUB**

FALL 2020 – SPRING 2021

Organized events for the Virginia Tech Cyber Security Club.

### **SECOND PLACE AWARD ANDOR ASSEMBLY PROGRAMMING COMPETITION**

AUG 2019

Represented Virginia Tech in The University Nebraska's Andor Assembly Programming Competition. Focused on x86, ARM and RISC assembly. Won \$250.

### **TEAM LEADER CYBERPATRIOT**

Led a team of six students in a nation-wide cyber security competition while producing guides and scripts to gain an edge on competitors.

### **EDITOR-IN-CHIEF THE VIKING NEWS**

Led a publication that published timely content while enforcing strict deadlines and learning industry software such as Adobe InDesign and Photoshop.

### **FIRST PLACE AWARD THE SMARTPHONE OF THE FUTURE**

APR 2017

Won \$500 from The Institute of Electrical and Electronics Engineers (IEEE) for developing a prototype of a smartphone with interchangeable parts.

## PUBLICATIONS

### **SECURITY FOR COLLEGE FRESHMEN**

UNITED STATES CYBERSECURITY MAGAZINE, AUG 2017