

BILL DEMIRKAPI  
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## Education

BS, Computing Security  
*Rochester Institute of Technology* Expected May 2023

## Experience

Application Security Engineer  
Zoom Video Communications August 2020 to Present

- Leading the engineering of red team tooling for assessments as the technical architect and primary contributor.
- Auditing the applications our company uses for security vulnerabilities.
- Created an automated microservice platform on AWS that actively remediates a certain vulnerability class. Platform has found & remediated \$30,000+ worth of vulnerabilities.

Security Intern  
Zoom Video Communications April 2020 to August 2020

- As a Security Intern, my role focuses on securing the Zoom client by engineering solutions to prevent future vulnerabilities and managing the development of vulnerability patches.

Windows Penetration Testing Lead  
*RIT Collegiate Penetration Testing Competition* September 2019 to November 2019

- Led offensive Windows penetration testing operations as part of RIT's team for the Collegiate Penetration Testing Competition.

Software Engineering Intern  
*CrowdStrike* June 2019 to August 2019

- Developed anti-tamper solutions for core parts of the CrowdStrike Falcon sensor under the Strategic Research Initiatives team.

Security Integration Engineer High School Intern  
*IBM Resilient* June 2018 to August 2018

- Integrated security products with the Resilient incident response platform.

## Conference Talks

SecTor 2020 – Demystifying Modern Windows Rootkits October 2020

DEF CON 28 – Demystifying Modern Windows Rootkits August 2020

Black Hat USA 2020 – Demystifying Modern Windows Rootkits August 2020

DEF CON 27 – Are Your Child's Records at Risk? The Current State of School Infosec August 2019

RECon Montreal 2019 – The Unseen Dangers of Bloatware June 2019

## Research Publications

Insecure by Design, Epic Games Peer-to-Peer Multiplayer Service [bit.ly/34NKq2K](https://bit.ly/34NKq2K)

Defeating Macro Document Static Analysis with Pictures of My Cat [bit.ly/35ETXKR](https://bit.ly/35ETXKR)

How to use Trend Micro's Rootkit Remover to Install a Rootkit [bit.ly/3caDZ](https://bit.ly/3caDZ)

Several Critical Vulnerabilities on most HP machines running Windows [bit.ly/2RyNZ6j](https://bit.ly/2RyNZ6j)

Insecure by Design: Weaponizing Windows against User-Mode Anti-Cheats [bit.ly/2rIRNbj](https://bit.ly/2rIRNbj)

Remote Code Execution in Lenovo Service Bridge

Local Privilege Escalation in all Dell machines via pre-installed software [bit.ly/2kr0fBS](https://bit.ly/2kr0fBS)

Improper Access Control in Admissions Software allowing students to accept themselves [bit.ly/2Kh3GO8](https://bit.ly/2Kh3GO8)

Arbitrary physical memory access in Carbon Black endpoint software [bit.ly/2IYKjOs](https://bit.ly/2IYKjOs)

Remote Code Execution in all Dell machines via pre-installed software [bit.ly/2PGTLuf](https://bit.ly/2PGTLuf)