cholas B. Anderson

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Education

New York University, Polytechnic

Brooklyn, NY

MASTER OF SCIENCE IN CYBERSECURITY

Aug. 2013 - Dec. 2014

SFS ASPIRE Fellowship

Laramie, WY

University of Wyoming

MASTER OF SCIENCE IN MATHEMATICS, *DID NOT COMPLETE*

Aug. 2010 - Feb. 2012

- · Computing the refined stability condition, Quarterly of Applied Mathematics https://goo.gl/A4LCgP
- Upsilon Pi Epsilon Special Recognition Scholarship Recipient, Fall 2012

University of Wyoming

Laramie, WY

BACHELOR OF SCIENCE IN MATHEMATICS, MINOR IN COMPUTER SCIENCE

Aug. 2006 - May 2010

- Outstanding Graduate, College of Arts & Sciences Top 20 in Class, Spring 2010
- Honor Roll, U.W. President's List, 4.0 Semester GPA, Spring 2007, 08, 09
- · Varineau Memorial Math Scholarship Recipient, Spring 2009

Experience _____

Facebook Menlo Park, CA

Feb. 2016 - Current SECURITY ENGINEER

- Core developer and maintainer of osquery
- Managed Carbon Black cluster infrastructure for detection and incident response
- · open source mentorship
- sinkhole?
- · Hacktober contribs?

Sandia National Laboratories Albuquerque, NM

CYBER SECURITY R&D SCIENTIST AND ENGINEER

Jan. 2015 - Jan. 2016

Albuquerque, NM

June. 2014 - Aug. 2014

- Malware Reverse Engineer on Security Incident Response Teams.
- Reverse Engineered and developed C2 generation script for detection.

Sandia National Laboratories

GRADUATE STUDENT INTERN

• Member of the TITANS Center for Cyber Defenders (CCD) Program.

Trail of Bits New York, NY

• Malware Reverse Engineer on Security Incident Response Teams.

SECURITY INTERN Jan. 2014 - Aug. 2014

• Reverse Engineered and developed C2 generation script for detection.

Handel IT Laramie, WY

SOFTWARE DEVELOPER, SYSTEMS ADMINISTRATOR

Sep. 2012 - Aug. 2013

- C and .NET software development of RiteTrack5 software suite.
- Systems Administrator for Windows 2003, 7, 2008, 2012, and FreeBSD(pfSense) Operating Systems.
- Deployed and Administered Nagios Core, monitoring and alerting engine.
- Administered Windows SCCM server for agent and software deployments.

University of Wyoming, Mathematics Dept.

Laramie, WY

• Responsible for lectures, student grades, and preparing and issuing class guizzes.

University of Wyoming

Laramie, WY

IT TECHNICIANFOR ACADEMIC SUPPORT UNIT

Feb. 2008 - July. 2009

Dec. 2009 - Apr. 2010

• Troubleshooting computer issues, maintaining computer labs, and tech support.

Skills

ACADEMIC LECTURER

Programming Python, C/C++, Powershell, Ruby, C#, Haskell, sqlite, R

Security Tools IDA Pro, WinDBG, gdb, Wireshark, tshark, nmap, x64dbg, ollydbg, Splunk, Metasploit, Empyre

Skillsets Malware Reverse Engineering, Lockpicking, Exploitation, CTFs

Presentations

OSDFconHerndon, VA, USA

THE OSQUERY FILE CARVER

Oct. 2018

• Introduced the osquery file "carving" capability, it's goals, and non-goals.

QueryCon San Francisco, CA, USA

KEYNOTE - EVOLVING OUR OPEN SOURCE COMMUNITY

June 2018

• Covered basic concepts of Secure and Trusted boot technologies, https://www.youtube.com/watch?v=RVNEUqgwv5A

BlueHat Redmond, WA, USA

DETECTING COMPROMISE ON WINDOWS ENDPOINTS WITH OSQUERY

Nov. 2018

 Discussed how to scale osquery to detect compromise at enterprise levels, as well as use-cases and success stories from the field. https://www.slideshare.net/MSbluehat/bluehat-v17-detecting-compromise-on-windows-endpoints-with-osquery-84024735

Brucon 0x8 Ghent, Belgium

HUNTING MALWARE AT SCALE WITH OSQUERY

Oct. 2016

Same workshop as DEFCON 24

 $\bullet \ \ https://brucon0x082016.sched.com/event/8YCB/hunting-malware-with-osquery-at-scale$

Structure Security

Open Square Security Panel

Sep. 2016

• Organized and took part in a panel discussion about open source security tooling.

• Fortune Article - http://fortune.com/2016/09/27/facebook-uber-slack-pandora-open-source-security

- Guardian Article https://www.theregister.co.uk/2016/09/28/oh_all_right_says_facebook_well_let_windows_admins_run_osquery
- Facebook Graph Blog https://www.facebook.com/notes/protect-the-graph/introducing-osquery-for-windows/1775110322729111/

DEFCON 24 Las Vegas, Nevada, USA

HUNTING MALWARE AT SCALE WITH OSQUERY

Aug. 2016

- 4 hour workshop focused on using osquery to scale host based detections.
- · Covered standing up a SIEM, configuring an endpoint EDR, and building detections around host based security telemetry.
- $\bullet \ \ https://brucon0x082016.sched.com/event/8YCB/hunting-malware-with-osquery-at-scale$

DEFCON 23 Las Vegas, Nevada, USA

HARDWARE AND TRUST SECURITY: EXPLAIN IT LIKE I'M 5

Aug. 2015

 $\bullet \quad \text{Covered basic concepts of Secure and Trusted boot technologies, https://www.youtube.com/watch?v=2gbooa3tO5oologies, https://www.youtube.com/watch?v=2gbooa3tO5oologies$

Extracurricular Activity

Brooklynt Overflow, NYU OSIRIS Lab

Brooklyn, NY

CO-CAPTIAN AND TEAM LEAD

2013 - 2015

- Curator of educational program Hack Night, teaching new students about security.
- Organizer of CSAW Security Conference.
- CTF Challenge author for DHS Forensics competition.

Cyber Defense Action League, Univ of Wyo Cyber Security team

Laramie, WY

2009 - 2012

CORE AND FOUNDING MEMBER

- Helped found and establish the University of Wyoming Cybersecurity team.
- Awarded \$15,271.26 for grant proposal to construct Cyber Security Lab.
- 1st Place Winner of the North Central Collegiate Cyber Defense Competition in Spring 2011, 12.
- Competed in CTF competitions such as CSAW, ASIS, Plaid, and ruCTF.
- Gave educational demos around exploitation and malware reverse engineering.

Upsilon Pi Epsilon

Laramie, WY

FOUNDING CHARTER MEMBER 2009 - 2012

· Helped found and establish the University of Upsilon Pi Epsilon (Computer Science Honor Society) chapter.

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University of Wyoming Cryptography Research Cohort

Laramie, WY

RESEARCHER Academic year 2009 - 2010

- Worked with cohort on deep dives into asymetric crypto routines and co-prime primitives.
- Wrote R code for running numerical analysis of research work.

NSF EPSCoR Research Fellowship

Laramie, WY

RESEARCHER

Spring 2009

• Senior research project on the question "can you hear the shape of a drum?", analysis of eigen values of wave forms.

Honors & Awards

2017 **O'Reilly Security Project Defender Award,** O'Reilly Security Conference 2014, 15, 17 **FLARE-ON Honor Roll**, FireEye FLARE Lab RE Competition

New York, NY, U.S.A flare-on.com