Lilly Chalupowski

Security Application Developer - Threat Intelligence

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Summary

In Cyber Security it's important to be versed in many different skill sets. To facilitate this skill set I've taken all Advanced Placement courses throughout High School and achieved Honors, took one year of Computer Science and four years of Engineering throughout University, have taken an additional nine courses in correspondence highlighting on White Hat Hacking,

Web Application Security Testing, Security+ and Networking, also continuing my technical knowledge by reading books like The Shellcoders Handbook, Hacking the Art of Exploitation and Web Application Hackers Handbook.

I'm familiar with the PCI Compliance methodology and I'm able to determine if a business meets SAQ A, B, C or D. I'm able to work with ASV's to get external scans completed that meet compliance requirements as well.

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I've done public relations as well delivering presentations to the consumer market as well as the private sector at the Atlantic Security Conference. These presentations include live hacking demonstrations and remediation proof of concept work. These demonstrations have included Lock Picking, SQL Injection, Buffer Overflows, Remote Exploitation, Malware, WiFi Exploitation, XSS, and more.

I also make hacking tools in my spare time one called Chameleon and one called Badger. Chameleon is a base64 Stenography Tool with Advanced Key Options and can be incorporated into AV Evasion Projects, Badger is a Windows Exploit Development Tool designed to allow easier enumeration of DEP, SEH, and ASLR protections.

Skills

- C
- Reverse Engineering
- gcc
- Linux
- MySQL
- Heap Overflows
- Microsoft Office
- SQLi
- Web Application Security
- Threat Intelligence
- EDR
- C++
- Yara Rules
- Bash
- Gentoo
- Buffer Overflows
- Format Strings
- Troubleshooting
- XSS
- NDA
- NIDS
- Web Design
- Python
- Data Forensics
- JavaScript
- PostgreSQL
- ROP Chains
- Apache
- Public Speaking
- C TCP Programming
- Malware Analysis
- LIDS
- Social Engineering

Experience

2017 - Present	GoSecure - Security Application Developer	Dartmouth, Canada

- Aggregation of Threat Intelligence
- Yara Rules
- Sandbox Cluster
- Malware Analysis
- Reverse Engineering
- Writing NIDS / LIDS Rules
- PostgreSQL DBM
- Programming Custom API

2018 - Present	OWASP - OWASP Halifax Chapter Leader	Halifax, Canada

- Presentations
- Public Speaking
- Bookkeeping
- Typing
- Invoices
- Communication Skills
- Organizing Events

2016 - 2017	GoSecure - Cyber Security Analyst	Dartmouth, Canada

- NIDS
- LIDS
- Managing EDR Systems
- Log Analysis
- Standard Operating Procedures
- SOC

2014 - 2016	Sykes - Systems Security Technician	Bridgewater, NS, Canada

- Removal of Root-Kits, RATs and other Malware
- Developed SSDP Vulnerability Scanner for several CVE Database items
- Resolved technical issues involving network system accessibility and stability
- Troubleshooting client software and security issues
- Using CRM and Web UI databases for client data and documentation
- Reviewing Event Logs and other Error Logs
- Processed feature requests for computers, including maintained upgrades for Windows 10
- Administrated network systems remotely, such as computers and various network devices

2014 - 2014	Freelance - File Restoration Programmer	Dartmouth, NS, Canada

- Restored Corrupted file headers for RIFF file format
- Coded in C++ using file i/o
- Restored all original audio from what was recovered
- Mixed and mastered the recovered tracks
- Worked with client and set expectations of data recovery

2012 - 2012	HB Studios - Audio Designer	Lunenburg, NS, Canada

- Use of internal audio development software by EA
- Developed internal debug GUI tool for QA Testers using Win32 API
- Use of internal game compilers
- Debugging and troubleshooting
- Designing and implementing game audio
- Sound-file database management
- Microsoft Office
- Testing game builds for quality purposes

2011 - 2011   89.3 KRock - Audio Producer   New Minas, NS, Canada

- Operating control room
- Voice over post-production
- Sound discrimination, data entry
- Operated pre-amps, vocal booths, Adobe Audition, and RCS computer server
- Operated controls for remote talent
- Mixing and Mastering Advertisements for Clients

Education

2016 - Present	Udemy Academy - Continuing Security Education	Online

- Cyber Security
- Cyber Security Law
- White Hat Hacking and Penetration Testing
- Mastering Python Networking and Security
- Certified Whit Hat Hacker Level 2
- Networking for Amazon's AWS Cloud
- Avoiding Scams
- Certified Web Application Security Tester
- Cyber Security - Devry University
- Private Investigator Ethics
- CompTIA Security+

2005 - 2010	Acadia University - Audio Engineering, Computer Science, Sociology Minor	Wolfville, NS, Canada

- Computer Science
- Physics
- Java Programming
- Microsoft Office Certification
- Business Mathematics

1998 - 2005	Bridgewater Jr/Sr High School - Advanced Placement	Bridgewater, NS, Canada

- AP Physics
- AP Mathematics
- AP Biology
- English
- French
- History
- Physical Education
- Typing Class

Projects

2018	Swamp RAT	GitHub

- C Programming
- TCP Sockets
- libncurses
- libcurl

2018	Chrome Crusader - Google Chrome Malware & Botnet	GitHub

- JavaScript
- JSON
- HTML
- Python

2018	emacs.d - Emacs Configuration for Humans	GitHub

- ELisp

2017	png2mirc - IRC Pixel Art Tool	GitHub

- Bash
- Python

2016	badger - PE File Security Enumeration	GitHub

- C Programming

2016	chameleon - Custom Base64 Encoder & Decoder	GitHub

- C Programming

2016	pwn-scan - HaveIBeenPwned CLI API Tool	GitHub

- Python

Presentations

2018	BSides Las Vegas - The Chrome Crusader	Las Vegas, NV, USA

- JavaScript
- BotNet
- Malware Development
- Security Header Evasion

2018	AtlSecCon - The Chrome Crusader	Halifax, NS, Canada

- JavaScript
- BotNet
- Malware Development
- Security Header Evasion

2016	AtlSecCon - PE File Structure Security & Custom Base64 Steganography	Halifax, NS, Canada

- PE File Structure Security
- ROP Chains
- Remote Exploitation Development
- Custom Base64 Steganography

2016	HASK - Breaking in the Front Door with OWASP Zap & Metasploit	Halifax, NS, Canada

- Metasploit
- OWASP Zap
- Web Application Security
- File Upload Vulnerability

Volunteer

| 2010 - 2014 | Eastlink TV - Volunteer | Sackville, NS, Canada |

- Running XLR Cables
- Troubleshooting Signal Loss
- Operating Production Truck Mixer
- Heavy Lifting of Production Gear

| 2009 - 2009 | Smile Program - Acadia University | Wolfville, NS, Canada |

- Helping Children Cope with Disabilities
- Managing Large Groups of Children
- Leading Group Activities

| 1998 - 1998 | 4H - Volunteer | Wileville, NS, Canada |

- Highway Cleanup
- Fundraising for Low Income Families
- Public Speaking and Presentations