

Aaron W. Sedlacek

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OBJECTIVE To obtain an internship starting in Summer 2016 utilizing my skills in reverse engineering, malware analysis, and exploit development.

EDUCATION

2010-2016 **Rensselaer Polytechnic Institute, Troy NY**
Master's and **Bachelor's** of Science in Information Technology and Web Science
GPA 3.1/4.0: Dean's List
Expected Graduation Date: December 2016

TEACHING

Fall 2015 **Malware Analysis**

- Developed and taught an undergraduate course on malware analysis covering Windows internals, user and kernel mode malware behavior
- Created course material covering nation-state sponsored "APTs" including APT1, Himsuky, Careto, and Hikit

WORK

Summer 2015 **Citigroup Inc. , Warren NJ**

- Participated in the Global Information Security Summer Analyst program
- Defended Citi's clients from threats by promoting active collaboration between Citi's various cybersecurity groups

COURSES

Fall 2015 **Advanced Stealth Malware Dissection**

- Studying rootkit and bootkit design and behavior through analysis of modern Windows malware such as Equation Group, Stuxnet, Duqu 2.0, and Careto
- Reimplementing Windows rootkit behaviors found in analyzed samples
- Researching and developing novel techniques to subvert Windows OS protection mechanisms including Kernel Patch Protection

Fall 2015 **Attacks Against Crypto-systems**

- Learning to exploit vulnerabilities in common crypto-system implementations

Spring 2015 **Modern Binary Exploitation**

- Studied binary exploitation techniques on user and kernel mode Linux
- Developed exploits for vulnerabilities including stack and heap based memory corruption, use after free, and integer overflows, and bypassing contemporary mitigations including stack cookies, DEP, and ASLR

TOOLS

- C, C++, Python, x86, x86_64, PHP, Javascript, SQL, Bash
- IDA Pro, WinDbg, OllyDbg, GDB, Sysinternals Suite, Volatility

EXTRACURRICULARS

2013 - 2015 **RPISEC**

- Elected Secretary of computer security club and CTF team
- Compete in multiple CTFs, including CSAW, PlaidCTF, and DEFCON quals
- Solved challenges from multiple war games, including Microcorruption, pwnable.kr, IO, and Cryptopals

2011-2015 **The Fraternity of Phi Gamma Delta**

- Elected chapter officer, steward, and pledge educator