Clarissa Podell

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SUMMARY

Recent Cybersecurity graduate with interests in Vulnerability Research, Binary Exploitation, Reverse Engineering, and Exploit Mitigation. Experience collaborating in groups and competence in real-world environments through online CTF/wargame challenges and coursework using DETERLab testbeds. Seeking career opportunity to collaborate with like-minded individuals.

EDUCATION

B.S. IN COMPUTER SCIENCE AND INFORMATION SECURITY
John Jay College of Criminal Justice, City University of New York (CUNY)
Jan 2016 – May 2018 | New York, NY
GPA: 4.0 / 4.0

B.S. IN FASHION MERCHANDISING MANAGEMENT
Fashion Institute of Technology, State University of New York (SUNY)
Aug 2009 – May 2013 | New York, NY
GPA: 3.48 / 4.0

SKILLS

PROGRAMMING
Strong:
Python • C • C++ • LaTeX
Familiar:
Perl • Assembly (x86 Intel) • Bash • SML

SYSTEMS
Windows • Debian • Ubuntu • Kali Linux

SOFTWARE
GDB • WinDbg • Immunity Debugger
OllyDbg • IDA Pro • Visual Studio • GCC
Wireshark • tcpdump • netcat • Git/SVN
Vim • Metasploit • Volatility Framework

AWARDS

RUTH S. LEFKOWITZ MATHEMATICS PRIZE
John Jay College of Criminal Justice
May 2018 | New York, NY
Award presented to one graduating senior for outstanding academic performance in the CS&IS major.

CORNELL UNIVERSITY'S WOMEN IN TECHNOLOGY & ENTREPRENEURSHIP IN NEW YORK (WITNY) SCHOLARSHIP
John Jay College of Criminal Justice
2017 - 2018 | New York, NY
Scholarship for promising female students in technology-related disciplines.

HOBBIES

• **Wargames** - OverTheWire, pwnable.kr, Root-Me, SmashTheStack, HackThisSite.
• **Krav Maga** Yellow Belt

PROJECTS

BYPASSING MICROSOFT'S CONTROL FLOW GUARD (CFG) | Capstone in Cybersecurity
Sep 2017 – Present | John Jay College of Criminal Justice, New York, NY
Team Lead. Research vulnerabilities and design limitations in CFG that can be leveraged to circumvent security measures and demonstrate several exploits on CFG-enabled binaries in Windows 10 that hijack control & gain arbitrary code execution. Publication to be submitted.

ELECTRONIC HEALTH RECORD DAPP | Faculty Mentored Research: Bitcoin & Blockchain
Jan 2018 – May 2018 | John Jay College of Criminal Justice, New York, NY
Research funded by a National Science Foundation grant to develop a infrastructure for distributed health record storage with access managed by a public blockchain.

LABS (COURSEWORK) | Capstone in Cybersecurity
Fall 2017 | John Jay College of Criminal Justice, New York, NY

CRYPTOGRAPHY LABS: Factored weak 1024-bit RSA moduli by finding a common divisor and reconstructed the private key to decrypt SSL/TLS traffic; Cracked password hashes with dictionary attacks using Hashcat & John the Ripper.

INTRUSION DETECTION SYSTEMS LAB: Configured Snort and OSSEC on a small DETER testbed network and developed signatures & rules. Evaluated IDS by creating forged packet streams with Scapy to trigger alerts.

DENIAL OF SERVICE LAB: Deployed a SYN flood attack between two testbed nodes & analyzed tcpdump attack traffic to calculate TCP connection durations.

MALWARE LAB: Wrote a proof-of-concept Command & Control botnet (master and worker) in Python. Commands: download website, send spam, & send files from host of choice.

EXPLOITS LAB: Wrote scripts to exploit a buffer overflow in web server software and a remote directory traversal vulnerability in perl cgi code. Created patches to fix the bugs.

OS-SPECIFIC SECURITY LAB: Wrote an exploit in C to bypass Ubuntu's address space layout randomization protection on a binary with a buffer overflow vulnerability.

WORK EXPERIENCE

HEAD RECEPTIONIST & ADMIN | Williston Park Animal Hospital   06/2014–present
Grows the practice through marketing and strategic partnerships with vendors that support the doctor's holistic specialty; Implements clinic policies and procedures related to account receivables, billing, collections, and inventory controls; Manage & direct front-office staff through hiring, interviewing, and training.

ASST. WHOLESALE PLANNER | alice + olivia, New York, NY   08/2013–05/2014
Worked with the Director of Planning to develop pre-season plans aligned with corporate financial targets; Presented revised sales projections based on current and historical data; Provided analysis to sales team that identified opportunities and potential inventory liabilities.

WHOLESALE INTERN | Alexander Wang Inc., New York, NY   01/2013–06/2013
Researched and identified opportunities to expand wholesale business in Asia and Australia. Coordinated the execution of Fall '13 market week & supervised a group of interns and temps.

SALES | Scoop NYC, New York, NY   08/2011–08/2013
Top sales performer, achieved personal monthly quotas averaging $20,000 in sales per week. Established loyal network of clients through maintenance of a clientèle database.

RETAIL SPECIALIST | The Kooples, Metro NY Area   08/2012–04/2013
Launched the company's first four stores in the United States. Oversaw daily operations, established brand recognition & communicated daily performance to Paris headquarters.

FASHION OFFICE INTERN | Bloomingdale's, New York, NY   06/2011–08/2011
First intern in history to style seventeen mannequins for the "Brights and Cropped" themed story which appeared in the 3rd Ave Flagship windows.