

Nick Gregory

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INTERESTS	Computer security (especially reverse engineering and binary exploitation), meteorology, photography, bowling.
WORK HISTORY	<ul style="list-style-type: none">▪ Research Scientist, Capsule8 Jan 2019 – Present▪ Research Intern, Capsule8 May 2018 – Aug 2018<ul style="list-style-type: none">• Researched and implemented strategies to detect zero-day attacks▪ MySQL Production Engineering Intern, Facebook May 2017 – Aug 2017<ul style="list-style-type: none">• Rewrote internal tools used to build out new MySQL clusters▪ Research Intern, M.I.T. Lincoln Lab May 2016 – Aug 2016<ul style="list-style-type: none">• Researched techniques to emulate complete embedded systems in the QEMU hardware emulator
EDUCATION	NYU Tandon School of Engineering , Brooklyn, New York, USA <ul style="list-style-type: none">▪ B.S. in Computer Science Sep 2015 – May 2019
OTHER EXPERIENCE	<ul style="list-style-type: none">▪ Vice President & Infrastructure Manager, NYU OSIRIS Lab Sep 2015 – Dec 2018<ul style="list-style-type: none">• Oversaw most lab research efforts, and managed all lab infrastructure▪ Co-Lead, CSAW CTF 2016 – 2018<ul style="list-style-type: none">• Wrote challenges for, and helped run CSAW CTF• During this time, CSAW Finals expanded from 1 site to 5 international locations
TALKS	<ul style="list-style-type: none">▪ Uncommon Sense: Detecting Exploits with Novel Hardware Performance Counters and ML Magic, Black Hat USA 2020▪ Using Linux Tracing for Security, CSAW C2 2019
PROJECTS	<ul style="list-style-type: none">▪ Holodeck<ul style="list-style-type: none">• Assisted rehosting of embedded devices in QEMU▪ Introduction to Offensive Security<ul style="list-style-type: none">• A course I co-created to teach offensive security at NYU▪ Dispatch<ul style="list-style-type: none">• A Python framework for programmatically disassembling and patching binaries▪ Weather Explorer<ul style="list-style-type: none">• A fully open-source website for exploring current weather and forecast data▪ Snapshot LKM<ul style="list-style-type: none">• A kernel module to add a fast snapshot/restore mechanism for fuzzing. Adopted by the AFL++ project.
ACHIEVEMENTS & AWARDS	<ul style="list-style-type: none">▪ Dean's List, NYU Tandon School of Engineering 2015 – 2017▪ Bug Bounties 2016 – Present<ul style="list-style-type: none">• Found and reported bugs to 4 Alexa top 1000 sites, multiple of which could have led to complete site compromise.▪ 10th Place, DEFCON Finals (RPISEC) 2018▪ 16th Place (10th Academic), iCTF (NYUSEC) 2017▪ 2nd Place, CyberSEED CTF (NYUSEC) 2016▪ 9th Place, CSAW CTF Finals (NYUSEC) 2015
SKILLS	C, C++, Python, x86 assembly, ARM assembly, MySQL