

Gabriella Noble

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OBJECTIVE: Graduating computer scientist seeking employment in the fields of cybersecurity or cybercrime.

B.S. Computer Science

Expected Graduation: May 2023

Virginia Polytechnic Institute and State University, Blacksburg, VA

EMPLOYMENT EXPERIENCE

Information System Security Officer Co-Op | MIT Lincoln Laboratory

May 2022 - Aug 2022

- Utilizing the Risk Management Framework, responsible for the research, development and documentation of a Continuous Monitoring policy to be implemented on seven Classified Information systems and adaptable for use on more than 30 other Classified Information Systems throughout the Lincoln Laboratory collateral team.

Apprentice Research Analyst | ITSC Secure Solutions, LLC (ITSC)

April 2020 - June 2020

- Internship involved conducting in-depth research to better understand the government customer and to identify risk factors to explore the expansion into new market spaces.
- Became the subject matter expert within the company on the USPTO, NC3, and Office of Security and Integrity, as well as the Combined Force Space Component Command, Space and Cyber Operations Directorate.
- Reported research findings to the highest levels of executives within the company so they could make informed decisions on when and where to expand into targeted new markets.

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, C, JavaScript, CSS/HTML, MATLAB

Technologies: Git, Linux, Unix, AutoCAD, Splunk, React, Valgrind, Bash, MySQL

Coursework: Software Design, Data Structures & Algorithms, Computer Organization, Computer Systems

MAJOR PROJECTS

64-bit Dynamic Storage Allocator

- Wrote a dynamic storage allocator for C programs, intended to replace the malloc and realloc routines
- Implemented a heap consistency checker to be used for untyped pointer manipulation detection

Fork-Join Framework

- Implemented a work-stealing thread pool utilizing semaphores to achieve thread safety outside the Linux kernel
- Prioritized speedup of the common case to minimize per-task synchronization overhead

Attack Lab

- Generated a total of five attacks on two programs with different security vulnerabilities
- Used debugging tools GDB and OBJDUMP to find and insert exploit strings, as well as utilizing the ROP exploit

LEADERSHIP EXPERIENCE

Director of Membership, *National Panhellenic Council* | *Nov 2021 - Jan 2023*

- Member of the National Panhellenic Council executive board
- Responsible for overseeing 1000+ women throughout Panhellenic Formal Recruitment

Peer Mentor | *Virginia Tech Center for the Enhancement of Engineering Diversity (CEED)* | *Aug 2020-Dec 2020*

- Served as a mentor to a group of incoming Engineering freshman
- Weekly meetings to assist students academically and socially
- Provided guidance and advice for engineering opportunities

Captain Varsity Basketball | *Oct 2018 - March 2019*

RECOGNITION & AWARDS

Honors College Scholarship, *Virginia Polytechnic Institute and State University* | *Aug 2019 - June 2020*

College of Engineering Scholarship, *Virginia Polytechnic Institute and State University* | *Aug 2019 - June 2020*

National Honors Society | *Sep 2017 - June 2019 (High School Graduation)*

