

KELLY FAM

COMPUTER SCIENCE MAJOR

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EDUCATION CORNELL UNIVERSITY, ITHACA, NY, JANUARY 2017-CURRENT

3.5 GPA

UNIVERSITY OF ROCHESTER, ROCHESTER, NY, AUGUST 2016-DECEMBER 2016

3.93 GPA, Dean's List

THOMAS R. PROCTOR HIGH SCHOOL, UTICA, NY, SEPTEMBER 2012-JUNE 2016

Valedictorian, Commanding Officer of NJROTC, Captain of Varsity Tennis, President of National Honor Society, Advanced Regents Diploma with Honors and Mastery in Science and Math

SKILLS **Languages Known:** Python, Java, C, HTML, CSS, PHP, JavaScript, Swift
Programs: Photoshop, Illustrator, Android Studio, XCode, VirtualBox, VMWare Workstation, UNIX, Cobalt Strike, Metasploit

TECHNICAL COURSES

- Object-Oriented Programming and Data Structures using *Java*
- Computer System Organization and Programming using *C*
- Introductory Design and Programming for the Web using *HTML, CSS, JavaScript, and PHP*
- Introduction to IOS Development using *Swift*
- Data Structures and Functional Programming using *OCaml*
- Intermediate Design and Programming for the Web using *HTML, CSS, JavaScript, and PHP*
- Data-Driven Web Applications using *JavaScript and the D3 Library*
- Principles of Backend Engineering using *Python and SQL*

WORK HISTORY ASSURED INFORMATION SECURITY, INC., ROME, NY

May 2018-August 2018: Advanced Course in Engineering Intern

- Participated in the Air Force Research Lab Information Directorate Advanced Course in Engineering cyber security boot camp
- Built and hardened own network infrastructure with services, such as HTTP/HTTPS, Telnet, IRC, SSH, relational database, FTP, DNS, Gitlab, VPN, and a Vyos router on a virtual network with server virtualization software
- Solved challenge problems, performed tradecrafts, completed a report, and presented on the solution every week. Topics included reverse engineering, malware analysis, buffer overflow, infiltration of a network, bypassing defense in depth, evasion of website vulnerabilities, penetration testing, system requirements, access control logic, concept of operations, and reverse shells
- Developed a GUI framework as a visual aid for Red Teams with PyQt and a back-end implementation of Empire
- Demonstrated defensive network tactics with the control and management of communications and network services in a cyber-simulated Capture the Flag (CTF) Attack and Defend hack-fest

May 2017-August 2017: Intern/Co-op in Computer Science/Engineering

- Worked alongside the Advanced Course in Engineering of the Air Force Research Lab Information Directorate
- Modified a score server for a hack fest with C# and .NET core
- Researched Command and Control re-structuring of the GPS under a Senior Scientist
- Wrote to the Air Force Vice Chief of Staff about blockchains and their potential use in the Air Force

EXTRA-CURRICULAR ACTIVITIES

CORNELL MEDIUM DESIGN COLLECTIVE, SEPTEMBER 2017-CURRENT,

Web Development Team – maintains the club's website, cornellmedium.design

Social Chair – organizes social events to highlight/celebrate the organization

THREAD MAGAZINE, SEPTEMBER 2017-CURRENT

Marketing Team – provides aid and advice in the promotion of the magazine

ALPHA KAPPA DELTA PHI INTERNATIONAL SORORITY INC., MARCH 2017-CURRENT,

Multi Greek Letter Council Representative, Web Designer Chair

ALPHA PHI OMEGA-GAMMA SERVICE FRATERNITY, JANUARY 2017-CURRENT