Contact Details

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TAYLOR OVERTON

Academic Background

Cornell University:
August 2018 - Expected May 2022

- **Cumulative GPA: 3.278**
- College of Engineering
  - Computer Science Major
  - Electrical and Computer Engineering Minor
  - Information Science Minor
  - Cyber Security Specialization

Relevant Skills

- Advanced Microsoft Office Skills (Word, Excel, and Powerpoint)
- Windows & Linux Proficient
- Python, Java, JavaScript, React.js, OCaml, C++
- labView Software
- HTML
- Adobe Photoshop
- French Profiecient

Achievements

- Masonic Scholarship Recipient (2018 - 2020)
- Eagle Scout (2017)
- Leading Scorer and New York State Varsity Soccer Champion (2017)

Related Course Work

- Analysis of Algorithms
  - Explored and developed various algorithms at an advanced level
- Networks and Telecommunication
  - Studied in detail the inner workings of the internet including all layers of the OSI model
- Business Computation
  - Gained advanced skills in the creation and formatting of professional-use templates in Word, PowerPoint, and Excel
- Discrete Structures
  - A proof based course focusing on proving computational concepts such as RSA encryption and advanced networking theory

Work Experience

CMSX Developer
Cornell University, Ithaca NY • July 2020 - Present

- Participated as a developer updating and maintaining grading software used by almost 10,000 Cornell students and faculty
- Successfully added features and bug fixes as well as helping to update the user interface

Lab Technician and Research Assistant
Bovay Lab, Cornell University, Ithaca, NY • March 2019 - April 2020

- Worked full and part time helping the conduction of civil engineering research
- Focused mainly on data acquisition, fabrication, and technical support
- Successfully conducted set-up, execution, and data analysis of several tests looking at earthquake resistant water pipe liners without injuries and consistently on time

AFM Research Assistant
TAMNS Lab, Cornell University, Ithaca, NY • January 2018 - May 2018

- Worked part time as an AFM (Atomic Force Microscopy) assistant under the TAMNS (Translational Applications of Nanoscale Multiferroic Systems) program
- Followed advanced procedure to produce repeatable results of scans looking at the atomic properties of lab grown substances

Leadership Experience

- Cornell Women's Varsity Volleyball, *Head Manager and Statistician*
  - Responsible for the setup and conduction of drills and consults with other coaches during contests to assess game-play modifications
  - Successfully took over as the sole statistician on the team and worked to optimize the previous system for improved performance measurements
- Pi Kappa Alpha International Fraternity, *Vice President of Member Development*
  - Responsible for the coordination and curriculum of continued education of brothers on topics beyond the scope of academics
  - Led several educational sessions working to improve fellow members grasp on topics such as filing taxes, conquering job interviews, and even how to DJ
- Boy Scouts of America, *Eagle Scout*
  - Patrol Leader: Organized and led group camping trips with 7-10 participants on several occasions
  - Educator: Created and presented lessons to the troop on various topics including knots, first-aid, bike safety, and various other topics

Individual Projects

- Studied for both the CEH and Security+ exams while taking on a full course load learning topics such as active and passive reconnaissance, cyber forensics, Python scripting, and using various tools for network penetration
- Performed in-depth research of write-ups from several CTFs
- Finished top 3 in a Cornell Sponsored hackathon: HackOurCampus
  - Led a team in the creation of an anonymous geo-fencing app focused on addressing social distancing challenges of the 2020/21 school year
- Successfully planned, required permits for, and led an Eagle Scout project aimed at revitalizing a local community garden
- Managed a service-project team of over 20 individuals while maintaining consistent team-wide communication while advancing my problem-solving skills
- Built data structures using Java to design a network modeled after a sewage system using tiles (nodes) connected by directed edges
- Implemented a Dijkstra algorithm of a directed edge node network to find an optimal path through said network