ALEXANDER KOROBCHUK

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EDUCATION

University of Colorado Colorado Springs *August 2017 - Present*
Major: Computer Security
Year: Senior
Set Graduation Date: May 2021
GPA: 3.328

Coursework: Computer Networks, Computer Architecture, System Administration & Security, Assembly Language Programming, Computer Information Systems, Network Penetration Testing

SKILLS

Network Security:	Metasploit, Burp Suite, Nmap, Dirbuster
Languages:	C#, C, Python, Java, Assembly, HTML
Data Science:	Machine learning, neural networks
Design:	Multiple semesters of teamwork with real clients on design and development

PROFESSIONAL EXPERIENCE

Cybersecurity Intern — The Aerospace Corporation *June 2020 - August 2020*
- Adapted existing network architecture to better suit cyber assessments.
- Assisted in the maintenance and development of a multi site cyber lab concept.
- Developed innovative solutions to perform cyber assessments on weapon systems.

PROJECT EXPERIENCE

Virtual Strategic Missile Integration Complex
- Assisted with the process of virtualizing the Air Force's Strategic Missile Integration Complex.
- Developed a script that automates validation/verification of simulated weapon system circuits.
- Automatically performs comprehensive tests and returns the results in a matter of seconds.

Colorado Cyber Innovation Center
- Architected a new solution to enhance the current network infrastructure.
- Aimed for multiple virtual local area networks to enable the virtual separation of physical labs.
- The new architecture would allow for simultaneous cyber assessments across all lab locations.

Cooperative Research and Development Agreement
- Researched the power usage and thermal output of the equipment in the cyber lab.
- Outlined the typical and maximum power usage/thermal output.
- Ensured that the cooling and power was sufficient to handle the equipment.

Network Security Dataset Design with Neural Networks
- Researched creating custom network security datasets for machine learning tasks.
- Input raw packet data and extracted n x 1 dimensional vectors with a neural network model.
- Trained a machine learning model on these vectors to detect malicious packets on a network.

ACHIEVEMENTS

Dean's List (2018): Achieve a GPA of 3.0 or above with 12 or more credit hours.
Colorado Cybersecurity Scholarship (2019): For students in the cybersecurity program at UCCS.
President's List (2020): Achieve a GPA of 3.5 or above with 12 or more credit hours.