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**Ryan Mower**

**OBJECTIVE:**

A third-year computer science student seeking an internship specializing in cybersecurity, with an emphasis on penetration testing, malware detection, vulnerability discovery, and defense.

**EDUCATION:**

College

* University of Minnesota, Twin-Cities, College of Science and Engineering 2019-2022
* Bachelor of Science in Computer Science
* North Dakota State University 2018-2019
* GPA: 4.00

Coursework

2020-2021

* Data Structures
* Automata Theory
* Algorithms
* Advanced Programing
* Operating Systems I, II
* Machine Architecture

**INTERESTS:**

* Cybersecurity
* Automated Vulnerability Discovery
* Networking
* Soccer, skiing, biking, weightlifting

**TECHNICAL SKILLS AND COMPUTER SCIENCE KNOWLEDGE:**

* C/C++, Java, Python, OCaml, MATLAB, R
* MySQL, Git, Docker, Kubernetes, JavaScript
* Linux, Windows, Macintosh
* Microsoft Office and Google Suite

**WORK EXPERIENCE:**

**Optum Software Security Engineer** Summer of 2020

* Developed web portal, performed agile development with DevSecOps
* Interacted with: REST API’s, LDAP, MySQL, Kubernetes, Docker, React framework
* Scanned applications with Fortify, pentested web portal, fixed vulnerabilities
* Collaborated with teammates and peers, practiced daily scrums, presented project

**Research Experience for Undergraduates in Cybersecurity** Summer of 2019

* Researched autonomous vulnerability discovery, communicated efficiently with peers
* Analyzed data, critically thought about challenging problems, wrote technical paper
* Practiced self-productive work, networked with cybersecurity professionals

**Shoreline Landscaping** Summers of2015-2018

* Terraformed landscapes, constructed and led daily crew activities
* Collaborated to ensure customer satisfaction, team player, interpreted blueprints

**INDEPENDENT WORK:**

**Python Ethical Hacking Course** Summer of 2019- 2020

* Created ARP Spoofer, ARP Spoof Detector, DNS Spoofer, MAC Changer
* Network sniffer, scanner and cutter, Keylogger, download replacer, code injector

**Web Scraper** 2019-Present

* Developed a tool that automatically scrapes the internet and sends emails accordingly

**Tutor** 2019-2020

* Voluntarily mentored students in Algebra, Calculus and Physics

**INVOLVEMENT:**

2019-Present 2018-2019

* NDSU Men’s Club Soccer Team
* NDSU Cyber Security Student Association
* UMNTC Association for Computing Machinery
* UMNTC Intramural Soccer
* UMNTC Club Alpine Ski Team