Julia M. Odden

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EDUCATION

Northwestern University   **Evanston, IL**
BA/MS in Computer Science - GPA: 3.95/4.0   *BA: June 2022; MS: March 2023*

EXPERIENCE

Northwestern University   **Evanston, IL, and remote**
Computer Science Peer Mentor   *September 2019 - June 2022*
- Teaching Assistant responsibilities for four computer science classes
- Held six hours per week of office hours for students, graded exams and homework

Kennedy Space Center, NASA   **Remote**
Command and Control Systems Engineering Intern   *June - August 2021*
- Developed a custom packet dissector plugin for launch vehicle command and telemetry traffic
- Worked with a partner and reported directly to senior NASA engineers

Kennedy Space Center, NASA   **Remote**
Command and Control Systems Engineering Intern   *June - August 2020*
- Designed and implemented a NASA-specific network health monitor to support the Artemis mission
- Reported directly to senior NASA engineers and presented project to NASA engineers and peers

Privoro   **Tempe, AZ**
Junior Software Engineer   *June - August 2019*
- Designed and implemented automated testing software for new devices, integrated Python into Swift applications, performed statistical analysis on data using Python

PROJECTS

Updates to the Ming Yan Intrusion Detection System   *January - March 2022*
- Updated the Ming Yan IDS to include alerts for malicious behaviors within containerized environments
- Presented our work to developers

MQTT Privacy Analysis   *January - March 2022*
- Designed and executed research project analyzing the degree of private data leakage from anonymously accessible MQTT streams

RING-Bearer: Additions to RING dVPN Framework   *March - June 2021*
- Made additions to the RING dVPN framework to give node runners control over how dVPN providers use their bandwidth

COURSEWORK AND SKILLS

Relevant Coursework
- Introduction to Systems, Introduction to Network Science, Computer System Security, Scalable Software Architecture, Digital Forensics and Incident Response, Special Topics in Network Science, Internet Security, Operating Systems, Data Privacy

Programming Languages and Skills
- Python, C++, C, Racket, Java, x86-64 Assembly, HTML, CSS, Javascript, bash, PowerShell, Linux, Windows, MacOS

Forensic and Security Skills
- volatility, FTK Imager, Kali Linux network tools, Metasploit, Wireshark