Julia M. Odden

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EDUCATION

Northwestern University   **Evanston, IL**
BA/MS in Computer Science - GPA: 3.94/4.0   *BA: June 2022; MS: March 2023*

EXPERIENCE

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

Northwestern University   **Evanston, IL, and remote**
Computer Science Peer Mentor   *September 2019 - June 2021*
- Teaching Assistant responsibilities for three core 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 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

Treesearcher   *September 2020 - March 2021*
- Designed and developed a research app for arborists at Morton Arboretum
- Participated in the design process, including design reviews, prototyping, and user testing

THE NEWS SEARCH ENGINE   *September - December 2020*
- Full-stack development of a functional news search engine, hosted on Amazon Web Services

Martian Photo Classification, Arizona State University   *June - August 2017*
- Designed and implemented an algorithm to statistically categorize incoming images from the Curiosity rover's mast camera as either scientifically useful or damaged and needing to be re-downloaded

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

Programming Languages and Skills
- Python, C++, C, Racket, Java, x86-64 Assembly, HTML, CSS, Javascript, Ruby

Forensic and Security Skills
- volatility, FTK Imager, Kali Linux network tools, Metasploit, Wireshark, currently taking the PEN-200 Penetration Testing Course

Operating Systems
- Linux, Windows, MacOS, Unix, capable with bash and PowerShell