

Monique S. Woodson

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Detail-oriented and innovative System Engineer with expertise in software development, cybersecurity, and tactical systems analysis. Adept at problem-solving, technical writing, and integrating complex systems. Passionate about continuous learning and delivering high-quality solutions in fast-paced environments. Holds a Secret security clearance.

EDUCATION

Alabama A&M University	Normal, AL
B.S., Computer Science ; Concentration in Cyber Security	May 2024
Cum Laude - GPA: 3.21/4.0	

TECHNICAL SKILLS

Programming Languages: C++, C#, Java, Python, Swift, Linux

Web Development: HTML, CSS, JavaScript

Tools & Platforms: GitHub, PuTTY, NetBeans, Xcode, Spyder, Microsoft Office, MS Visual Studio, DOORS NextGen

WORK EXPERIENCE

Lockheed Martin	Huntsville, AL	June 2024 – Present
System Engineer		

- Enhanced software user manuals, improving clarity and reducing errors for end-users.
- Reviewed tactical system overview materials and improved Python scripts to resolve performance issues.
- Integrated models for our simulation, contributing to platform stability and efficiency.
- Organizing and managing CDs/discs and security keys, improving operational efficiency and ensuring accessibility of critical resources.

NASA Marshall Space Flight Center	Huntsville, AL	January 2024 – May 2024
Software Engineer Intern		

- Orchestrated the establishment of the Design Level Requirements (DLR) test environment, facilitating streamlined execution and investigation of failures, thus optimizing testing efficiency.
- Integral to the transition from the current ARTEMIS II GitHub environment to the planned ARTEMIS IV configuration, enhancing team collaboration and adaptability to evolving project needs.

NASA Marshall Space Flight Center	Huntsville, AL	August 2023 – December 2023
Software Engineer Intern		

- Supported MSFC ES50 EPG, elevating documentation quality and process efficiency, which contributed to enhanced project clarity and team productivity.
- Actively contributed to the analysis and improvement of engineering processes, fostering a culture of continuous improvement and adaptability within the team.

National Defense Education Program	Normal, AL	August 2023 – November 2023
Student Intern		

- Actively attended and engaged in guest lectures by industry leaders, absorbing cutting-edge insights across diverse STEM domains such as Artificial Intelligence, Machine Learning, Cybersecurity, Biotechnology, and Microelectronics. This enriched personal knowledge and skillset, fostering a culture of continuous learning within the team.

- Applied acquired knowledge to contribute to team expertise, aligning with the strategic initiatives of the Department of Defense and enhancing collective readiness to address emerging challenges in national security.

NASA Marshall Space Flight Center
Software Engineer Intern

Huntsville, AL

May 2023 – August 2023

- Spearheaded the development of Python code for a 10-week carbon dioxide scrubber digital twin project, contributing to the advancement of critical life support system simulations.
- Streamlined GitHub and DOORS NextGen processes, reducing onboarding time by 35%, ensuring seamless integration of new server locations, and optimizing team workflow efficiency.

PROJECTS & SKILLS

Stay on Task (Mobile Application Development)

- Developed a task management mobile app using Flutter & SQLite for improved productivity.
- Implemented features including reminders, deadlines, progress tracking, and prioritization.
- Conducted iterative testing, refining based on user feedback.

GitHub: https://github.com/moniquewoodson/stayontask_application

EternalEase - A Mental Health Website

- Created an online platform for mental health awareness and resources using HTML, CSS, and JavaScript.
- Integrated interactive features for user engagement and accessibility.

Website: <https://eternalease.info/>

GitHub: <https://github.com/MoniqueWoodson2/EternalEase>

LEADERSHIP & COLLABORATION

- Strong technical writing and documentation skills, ensuring clear communication of updates.
- Ability to quickly adapt to new systems and contribute to project advancements.
- Proven analytical skills in troubleshooting and improving tactical system performance.
- Computer Science Club – President (Fall 2023 – May 2024)
 - Led workshops, coding competitions, and mentorship programs for students.
- Girls Who Code – Treasurer (Fall 2023 – May 2024)
 - Managed funding and sponsorships for coding boot camps.
- National Society of Leadership and Success – Member (Fall 2023 – May 2024)
 - Engaged in leadership development programs and networking events.