Maria Bowser
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With over 5 years of progressive experience in full-stack software engineering, I have consistently advanced in roles that prioritize Agile methodology, cybersecurity, and high-security software development within the Intelligence Community. My background includes leading digital transformation initiatives and fostering innovation across cloud, standard, and secured environments. Recently, I applied my expertise to reverse engineering, further demonstrating my in-depth conceptual skills and adaptability. I bring a diverse, well-rounded, and enthusiastic approach to mission-critical projects, with a focus on delivering impactful, secure, and efficient solutions.

Skills:
Full Stack Software Development, Reverse Engineering, UX/UI, Python, C, Java, JavaScript, HTML, CSS, Go, Ghidra, Valgrind, gdb, gcc, Linux, Bash Scripting, Networking, Cybersecurity, OSINT, Wireshark, Russian (10 years), Japanese (20 years)

Reverse Engineer and Vulnerability Researcher Verite Group Inc, *Dulles, VA | July 2024 – October 2024*
Led reverse engineering initiatives for the cyber operations team, creating a specialized toolchain with Ghidra, Valgrind, gdb, gcc, and networking tools to uncover vulnerabilities in mesh architecture, distributed systems, and embedded systems. Automated decompilation of complex binaries, developing Python and Bash scripts for large-scale analysis. These scripts enhanced vulnerability assessments across distributed architectures, showcasing automation and backend expertise. Delivered enterprise-grade solutions in air-gapped environments, emphasizing secure, isolated system development—a critical skill for secure full-stack deployments. Contributed linguistic and software expertise to cyber operations, supporting diverse and high-stakes cybersecurity initiatives.

Software Engineering Consultant, Deloitte Consulting
DC Metropolitan Area | Jun 2021 – Jun 2024
Performed full-stack software development in secure, air-gapped environments, optimizing processing speed by 700% and creating efficient backend solutions. Developed command-and-control servers with Python CLI for Red Team operations, reinforcing backend automation and command execution skills valuable in full-stack roles. Designed modular CSS/JS/HTML for cybersecurity web applications, leading high-security development for the Cyber Business and Operations team.Utilized Wireshark for network intrusion detection and conducted reverse engineering to strengthen system security. Recognition: Winner of an in-house OSINT Capture the Flag competition (October 2023), demonstrating cybersecurity and analytical expertise.

Software Engineer (Backend) PioneerTech, Fairfax, VA | Jan 2021 - Jun 2021
Led full-stack Java Enterprise development for secure Oracle projects, operating within a rigorous Oracle Certified Associate (OCA) environment that enforced strict compliance and best practices in Java development. Improved software reliability through the modernization of legacy systems and robust database debugging, ensuring security and efficiency in a backend-focused Agile environment. Drove digital transformation initiatives, implementing security upgrades across legacy systems—a critical skill for scalable full-stack environments.

Backend Software Engineer (Java) Concept Plus, Fairfax, VA | Mar 2020 - Aug 2020 Developed backend integrations for the DOEHRS-HC contract supporting DoD personnel health readiness, including database management and service layer mechanics. Participated in Agile sprints for iterative development, an essential practice for effective full-stack collaboration.

System EngineerPerspecta Inc, Chantilly, VA | Summer 2018, Jan 2019 - Jun 2019
Engineered data solutions utilizing mobile time-location data for predictive analysis, applying skills in data processing valuable for backend systems.
Integrated blockchain for healthcare data, demonstrating secure data handling capabilities.

Education and Certifications
Virginia Tech - B.A. in Economics with a Concentration in Computer Science & Minor in Statistics (Dec 2018)
Certifications: CompTIA Security+, Full Stack Boot Camp (Udacity), Cybersecurity Software Engineering (Deloitte, Oct 2023)
Language Proficiency: Japanese , Russian