Vulnerability Research Labs

Vulnerability Researcher

Here at Vulnerability Research Labs we have spent more than a decade becoming a technical leader in cyber security. We became a leader in the field because we believe in our mission – to be at the forefront of cyber security and deliver unparalleled capabilities that solve our customer's hardest problems.

We're currently seeking a full-time Vulnerability Researcher in our Columbia, MD office. In this position, you will join top-notch developers who design, engineer, and deliver software products to our end customers.

Your Day-to-Day at Vulnerability Research Labs:

- Solving hard problems
- Reverse engineering complex systems and protocols
- Investigating the internals of various operation systems to discover new features, vulnerabilities, and techniques
- Improving upon proof-of-concept code to demonstrate vulnerabilities
- Testing out ideas and automating analysis using a scalable virtual lab
- Documenting findings to aid in reproduction of results

Responsibilities:

- Identify possible vulnerabilities in applications and operating systems
- Create and use tools for automated vulnerability analysis
- Perform exploitability assessments for vulnerabilities
- Document vulnerabilities and provide risk assessment
- Create reports and analyze trends in security and malware
- Design, develop, document, test and debug vulnerability analysis related software and systems
- Ensure software standards are met

Job Requirements and Qualifications:

- Bachelor's Degree in a Computer Science, Electrical/Computer Engineering or related technical field
- Ability to demonstrate low level software knowledge in an interview
- Reverse Engineering experience
- Understanding of vulnerability research methodologies
- Thorough understanding of TCP/IP networking
- Malware analysis experience
- Program comprehension at the assembly and decompiler levels
- Experience with virtualization/emulation tools
- Proficiency in one or more programming languages
- This position may require being fully vaccinated against COVID-19

Things we like best about VRL:

- The chance to work with the best in the business
- A strong focus on learning and career development including conference and training opportunities
- Most of all: an interesting and challenging workplace that takes care of its employees

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