Junior Software Engineer

Here at Vulnerability Research Labs we have spent more than a decade becoming a technical leader in cyber security. We became a technical 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 offer the opportunity to work on diverse technologies with hard working developers in an interactive company with a flat organizational structure.

We are currently seeking a Junior Software Engineer for our office in Columbia, MD (2023 start). This position is part of a team of top-notch developers who design, engineer, and deliver software products to our end customers.

Responsibilities:

- Assist with research, design and development of software systems and applications in a team environment
- Develop and perform unit, integration, and system level tests to find defects; troubleshoot and debug development and production issues
- Work closely with the team, and report updates and status clearly and accurately to management
- Troubleshoot, test and validate software issues; resolve issues in a timely manner and maintain thorough documentation of all software solutions

Your Day-to-Day at Vulnerability Research Labs:

- Solving problems with innovative and unique software solutions
- Writing cool NEW code - some days on one platform and other days on a different one (i.e. Windows or Linux)
- Poking around the internals of various operating systems (with Windbg, Immunity Debugger/Ollybdg, IDA Pro, gdb, lldb, etc.) discovering new features, vulnerabilities and techniques
- Validating ideas and solutions using automation in a virtualized environment

Minimum Required Skills and Education

- Bachelor of Science in Computer Science, Computer Engineering or similar from an accredited university
- This position may require being fully vaccinated against COVID-19

Additional Qualifications/Skills

- Imagination to think of new ways to solve hard problems
- Drive to take code from a proof of concept to a customer deliverable
- Ability to work alone or in teams of 2-5 developers
- Attention to detail - we do code reviews but do not micromanage
- Curiosity and a readiness to tackle big challenges
- Willingness to constantly learn new programming languages and technologies
- Detailed understanding of malware techniques, defenses, and counter measures
- Network programming and protocol analysis
- Familiarity with operating system internals
- Experience implementing encryption
- Software development experience with some of the following:
    - Win 32 C/C++ (user and kernel mode)
    - Building with custom tool chains
    - Python

- At least some development experience in or knowledge of the following:
    - Windows API and/or kernel development
    - Linux (user and kernel mode)
    - Android or iOS

Things we like best about VRL:

- The chance to work with the best in the business
- Solving hard problems
- 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

VRL is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or veteran status, or any other protected class.

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