



# Vulnerability Research Labs

## Software Engineer– Columbia, MD

We are currently seeking a Software Engineer for our office in Columbia, MD. This role will research, design and implement products, working with and leading product teams. This position will mentor and assist less experienced employees with design, code and tradecraft.

### Your day-to-day at Vulnerability Research Labs:

- Designing and writing code for products
- Writing documentation to support product and design
- Reverse Engineering aspects of Operating Systems and other software products
- Creating and defining tests for those products
- Debugging and Troubleshooting products
- Communicating across team status and ideas
- Learning new skills, platforms and techniques

### Responsibilities:

- Provides design ideas for new capabilities or recommendations for improvements to existing capabilities
- Communicates status with leadership and customers
- Contributes to the completion of milestones associated with specific projects
- Provides solutions to a variety of complex technical problems
- Determines computer user needs; analyzes system capabilities to resolve problems on program intent, output requirements, input data acquisition, programming
- Ensures software standards are met
- Able to lead projects developing software tools that strategically interact with computer networks while providing guidance and methodologies to other developers.
- Plans and conducts assignments, generally involving the larger and more important projects or more than one project
- Works cooperatively with clients, coworkers, and stakeholders in the furtherance of company goals and in compliance with directives, policies and deadlines
- Leads the design, development, documenting, testing and debugging of applications software and systems that contain logical and mathematical solutions
- Completes other duties as assigned by the Vice President of Engineering (or designee)

### Minimum Required Skills and Education

- Bachelor's in technical field
- 3+ years experience with the following:
  - C or C++ programming development
  - Operating System Internals
- 3+ years experience with the following:
  - Software Analysis/Reverse Engineering
  - Working with networking (TCP/IP)
- Understand assembly programming concepts

### **Additional Qualifications/Skills**

- Malware analysis
- Hypervisor experience
- Kernel/Driver experience
- Embedded systems development experience
- Java/Android Development experience
- Expert level knowledge of security concepts, networks, device drivers, & system internals
- Expert knowledge in at least one technology area (e.g. Windows, Unix, Mobile, Network devices)
- Expert knowledge of multiple programming languages such as C/C++, assembly (e.g. x86, ARM, MIPS), or Python.
- Python experience
- Unit Test experience
- Experience using Continuous Integration
- Enthusiastic about computer security and programming
- Analytical and critical thinking skills
- Git and source control usage

### **Things we like best about VRL:**

- The chance to work with the best in the business
- Minimal time in meetings
- The ability to go to conferences and training
- Real offices with doors and desks
- A well-stocked pantry with food and beverages
- Most of all: interesting and challenging work and a great team to work with!

Qualified candidates should apply through <https://vrlsec.applicantpro.com/jobs/>. To learn more about VRL, please visit our website: <https://www.vrlsec.com/>.

### **About Us:**

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.

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.

Please, no third-party firms

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