



Vulnerability Research Labs

Machine Learning Software Engineer (Python, Pytorch, Tensorflow)

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 are currently seeking a full-time Machine Learning Software Engineer (Python, Pytorch, Tensorflow) in our Columbia, MD office. This position is responsible for contributing to the development of solutions for challenging, open-ended problems on a diverse set of topics mainly focused on Machine Learning.

Your Day-to-Day at Vulnerability Research Labs:

- Contribute to all aspects of project from research to development
- Prototype solutions to assess feasibility
- Productize solutions for real-world applications
- Designing and writing code for products
- Creating and defining tests for those products
- Writing documentation to support product and design
- Communicating across team status and ideas
- Learning new skills, platforms and techniques

Responsibilities:

- Researches relevant AI technologies, ML algorithms, and tools
- Provides design ideas for adapting AI research for new capabilities or to enhance existing capabilities
- Implements, replicates, and adapts AI research as necessary to integrate into products
- Performs data selection, pre-processing, curation, and extract/transform/load (ETL) of large, complex data sets to support AI/ML solution development
- Produce visualizations to demonstrate effectiveness of AI 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
- Ensures software standards are met
- Plans and conducts assignments, generally involving the larger and more important projects or more than one project

Job Requirements and Qualifications

- Bachelor’s in technical field
- 2+ years’ experience with Python
- 2+ years’ experience with ML Frameworks such as Tensorflow or Pytorch
- This position may require being fully vaccinated against COVID-19
- Proficiency with multiple programming languages, such as Python, Shell scripting, C/C++
- Experience taking projects from concept to finished product
- Demonstrated ability to solve problems in new and novel ways

- Deep Learning, Neural Networks, or related fields and a strong interest and desire to pursue them
- Unit Test experience
- Experience using Continuous Integration
- Analytical and critical thinking skills
- Git and source control usage
- Docker
- Ability to work effectively in team-based environments as well as on tasks requiring high levels of initiative, autonomy, discretion, and independent decision-making

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.

[EEO is the Law](#)