

Job ID: 2018-0006

Jr. Data Scientist

Job Summary

At Cysiv, we are building the future of cyber risk management as a service. Going above and beyond a traditional MSSP, we provide an advanced co-managed platform for detecting and responding to threats backed by enrichment, intelligence and data science. We are looking for aspiring data scientists to help integrate multiple data sources into our SIEM-as-a-Service to help combat cybersecurity threats at all levels. Your job at Cysiv will be focused on building advanced and innovative detection mechanisms for attacker techniques tactics and procedures (TTPs) using a variety of data science techniques such as data pipelining, data cleaning, machine learning, model validation & tuning, and database optimization. We are looking for a Data Scientist that are eager to learn to help us develop and deploy solutions at cloud scale as part of Cysiv's security platform.

Principal Duties & Responsibilities

- Conduct Exploratory Data Analysis (EDA), including acquiring, engineering and exploring various data types and log sources for detection opportunities (50%-60% of role)
- Develop rule-based, non-machine learning (ML), detection algorithms in Python
- Determine appropriate places to implement rule-based, simple anomaly detection, or ML
- Work with the detections engineering team to transform attacker TTPs into viable, low false-positive behavioral and signature detections using a variety of techniques including supervised, semi-supervised, and unsupervised machine learning; emphasis on sequential classification and pattern-matching
- Set up testing environments and conduct EDA, data cleansing, and testing
- Optimize Python code for cloud execution
- Contribute to data pipeline functions including data cleansing, ML pre-processing, dimensionality reduction, database optimization (Graph, KV, Document, etc.), building connectors, and search
- Work with the development teams to design and support our security products and platforms

Qualifications

Education & Experience

- Experience with either data science or cyber security (both a plus)
- Undergraduate or graduate degree in data science, mathematics, analytics, computer science with data science concentration, statistics, or a related science
- Experience (including school or personal projects) working with large quantities of data
- Experience (including school or personal projects) with applied data science techniques such as data cleansing, data pipelining, machine learning and model validation
- Strong interpersonal skills
- Demonstrated ability to learn quickly
- Experience in Python, R, or Julia in a Linux environment
- Strong written and verbal communication skills in English

Skills that would set you apart from other applicants

- Knowledge of IT and security logs, threat intelligence, or machine telemetry
- Experience with Elasticsearch, ArangoDB, Redis, or similar
- Strong self-motivation, passion for problem solving with data, and ability to work independently
- Experience with multi-nomial classification, anomaly detection, deep learning, pattern-matching, or sequential classification
- Strong statistics background

Location: Dallas or Ottawa

Cysiv provides equal employment opportunity for all applicants and employees. Cysiv does not unlawfully discriminate on the basis of race, color, religion, sex, pregnancy and childbirth or related medical conditions, national origin, ancestry, age, physical or mental disability, medical condition, family care leave status, veteran status, marital status, sexual orientation, or gender identity.