WEBSITE DEFACEMENT DETECTION* (ca. 4-6 months)

With its 160 employees QSightIT is one of the largest Cyber Security companies in the Netherlands with an absolute focus on security, technology integration, consultancy and maintenance of vital parts of our customer's IT infrastructures. Our customer's are among others in the fields of: finance, government, commercial enterprises and health. We co-operate with technology partners who are recognized by the market as world leaders.

Innovation is high on our agenda, as such, our R&D department is solely purposed on innovations leading to new business solutions.

Within our R&D department we currently have an assignment for an enthusiastic person in our Data Science team concerned with the deployment of data science as a means to protect our customer's websites against web defacement.

Web defacement is a type of cyber-attack where a hacker is changing the visual appearance of a site or webpage, potentially leading to both commercial damage and damage of our customer's reputation.

The system devised should closely and continuously monitor websites as part of our managed service. Logic, based on for example: sentiment analysis or information entropy has to be developed in order to determine the probability whether an website undergoes an legitimate update - for example - by their marketing department or has been compromised in which case our security analysts need to be alarmed.

The candidate preferably has a background in Data Science, Statistics, Computer Science, Artificial intelligence or equivalent. Familiarity with (python) programming is considered a pre. Communication skills, integrity, initiative and passion are also highly valued.

QSight IT has a Hortonworks Hadoop state-of-the art big data platform. Net flow data is ingested in real-time and stored on HDFS. Spark (with Python bindings) is used to perform real-time and batch analyses of the data. Machine learning and numerical libraries include Keras, scikit-learn and numpy as well as MLib for Spark.

QSight IT developes software using SCRUM. The software management suite is provided by Atlassian. Research and development tasks are managed using JIRA. Stash is used to access the GIT repository and perform code reviews. Bamboo is used as build and deployment server.

Development takes place on a virtual box for each individual developer. QSight IT has near-identical acceptance and production environments, which are continuously monitored by devops personnel.

Background screening may be part of the procedure.