

Position:

Visual Analysis in Cyber Security

Information systems are exposed to an increasing number of attacks. A shortage of cybersecurity skills and cybersecurity professionals is a critical vulnerability for companies and nations. In our KYPO Cyber Range, we can organize cybersecurity training for beginners as well as advanced cyber defense exercises for security professionals. To improve the organization of exercises and their learning process, we design and develop analytical visualizations that provide insight into the complex cybersecurity processes and enable to analyze exercises and their impact from various perspectives.

The foreseen tasks of the position are the following:

- The design of views on cybersecurity data in the cooperation with domain experts.
- Implementation of analytical visualizations using web technologies.
- Data modeling focused on cybersecurity and educational data.
- Implementation of data services using NoSQL databases and REST APIs.
- Application of various data analysis techniques.

The candidate will have the possibility to interact with the Institute of Computer Science at MU, and their experts on cyber security in particular (CSIRT-MU team).

Characteristics of the candidate:

- Design skills (ability to design views on the data), or
- programming skills in Angular, D3.js, Java Spring, or
- data modeling skills, knowledge of Elasticsearch is an advantage.
- Good problem-solving skills.
- Demand for long-term collaboration is preferred.

We offer:

- Work in a team of young people (Bc/Mgr/PhD students).
- Improving your skills (analytical, visual design, programming).
- Engagement in the hot topic cybersecurity research.
- Possible financial rewards for good performance and results.

Type of collaboration:

- Internal LaSARIS member.
- Opportunity for Bc/Mgr/PhD thesis connected to the topic.
- Possible financial bonuses or external contract for good performance and results.

Timespan:

- Open throughout the year

Contact:

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