

The Present and Future of Data Security

Cyber Security:

- protecting computer systems from unauthorized access
- technological and human perspectives
- both network and data security.

FUTURE POSSIBILITIES

Evolution of Data Security:

Artificial Intelligence: enhance existing “intrusion detection” systems, by harnessing an AI’s ability to analyse large data sets to analyse network traffic more efficiently.

Quantum Cryptography: transfer data more securely, by using “fundamental laws” of quantum physics to prevent data splitting or copying by outside users.

Blockchain Technology: increase security of data storage by preventing access loss from attacks on a single computer, due to the peer to peer network used, and preserving data integrity through data’s linked nature.

Co-evolution: Cyber attack and defense technologies develop at similar rates so companies must invest in the latest technology to secure data.

30,000,000

Data breaches in 2018 alone



↑ RISING CHALLENGES

Risk	Mitigation
Phishing	Firewalls, VPN
Ransomware detection	Malware Service Systems
Cloud Computing Vulnerabilities	Secure Overlay Services Architecture

Advantages of Cloud Computing

- Fast
- Cost-efficient
- Reliable
- Other

Confidential Computing:

According to Seth Knox, the outreach chair of the Confidential Computing Consortium, it allows the coalescing of data among organizations for the purpose of data analysis without having access to each other’s data

