**Cryptography For Ethical Hackers**

**Learn about cryptography, one of the most important tools in modern cybersecurity, and how it’s related to Ethical Hacking.**

**What Is Cryptography**

Since before even the Roman Empire, humans needed to preserve the confidentiality of information, and one way we do that is by using cryptography. Broadly speaking, **cryptography** is the process of encrypting and decrypting data using algorithms known as ciphers. Ciphers vary broadly in their complexity, ranging from simple substitution ciphers that can be solved for fun by children to complex mathematical functions designed to resist the most powerful supercomputers we have.

The ciphers we use in modern cybersecurity are much closer to the latter than the former, but it’s often much easier to explain concepts using simple algorithms.