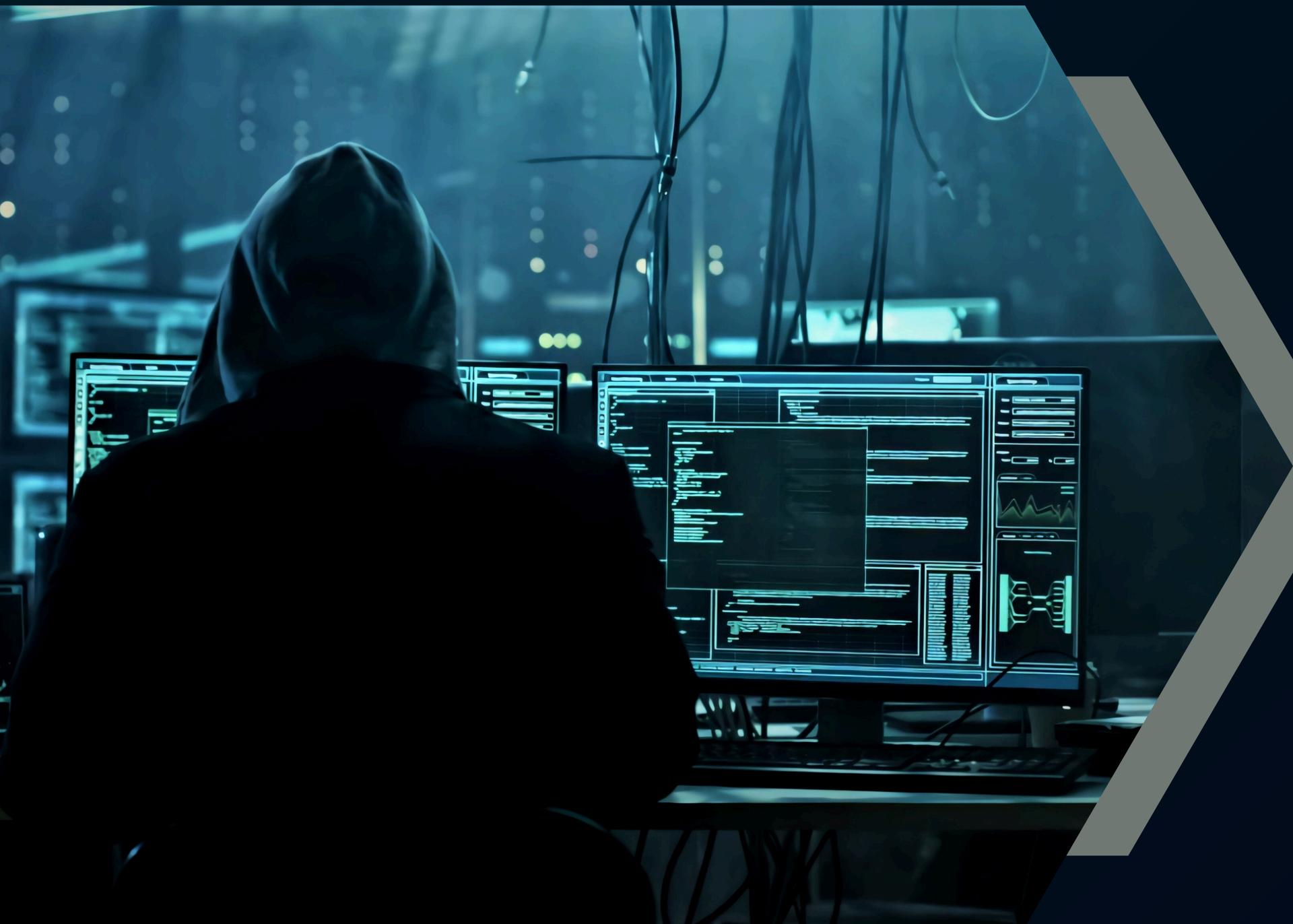




CYBER SECURITY FINAL PROJECT

PIXHIDE V1.0

- AMAL JAWAHDOU
- MAJOR IT - MINOR BA
- TUNIS BUSINESS SCHOOL



ABOUT PIXHIDE

PixHide is a platform that helps to hide secret in images or reveal the ones already hidden in it. It gives the client the opportunity to select the steganography method they want from various choices based on their needs, then to enter the message to encrypt or an image to decrypt, then get the result.

[Learn More](#)

SERVICES AND BENEFITS

Confidentiality

Hides messages within images, making the data invisible to unauthorized users.

Integrity

Ensures that the hidden data remains unchanged and is accurately retrieved.

Authentication

Uses Google OAuth2.0 to ensure that only authorized users can access the system.

Access Control

Regulates permissions to safeguard sensitive data and functionalities.

Encryption

Protects data during transmission and storage.

Continuous Vulnerability Management

Regularly scanning for and addressing potential weaknesses or vulnerabilities in the system to prevent exploitation by attackers.

WHAT DIFFERENTIATE US?



**Intelligent Algorithm
Selection**



Robust Security



**User-Friendly
Interface**

TECHNOLOGIES



Speed Master

FastAPI

FRAMEWORK

FastAPI for robust API development



DATABASE

PostgreSQL for persistent storage of user data



ENCRYPTION

RSA for secure password storage and transmission

TECHNOLOGIES



WEB

HTML, CSS, and JavaScript for frontend development



SECURITY

For enhanced authentication and access control :

- CAPTCHA
- strong password controls
- OAuth2.0



LIBRARIES

- stegano
- numpy
- PIL
- Crypto



AVAILABLE FREE ALGOS

01

LEAST SIGNIFICANT BIT

Embedding secret messages
in images at the pixel level

02

BIT-PLANE COMPLEXITY SEGMENTATION

Advanced technique for
embedding messages based
on the complexity of image
segments

05

"PIXHIDE UNLOCK PIXELS' HIDDEN
POTENTIAL WITH : SECURE, INVISIBLE,
AND RELIABLE DATA EMBEDDING"

THANK YOU