

# Basics of Cryptology

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ÖNDER GÖRMEZ

# Agenda

**I. Background**

**II. Projects**

**III. New Gateway Project**

**IV. References**

**V. Q & A**

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# Basics of Cryptology

## Background - Experience

I have over 8 years of experience in the software/hardware development industry.

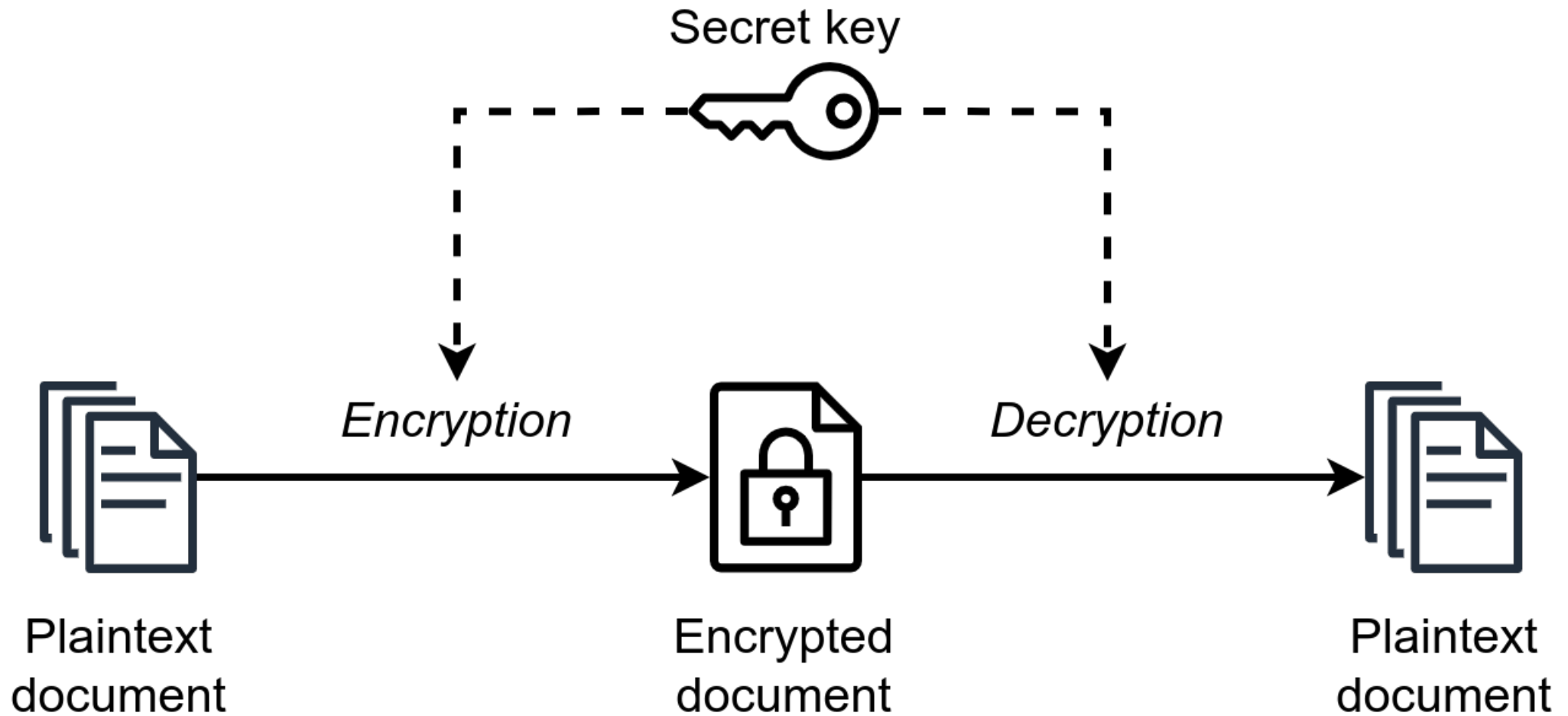
### Skills;

- Programming Languages;
  - C/C++
  - Java/C#
  - JavaScript
  - Python
  - Scala
- Project Management
  - Agile Software Development
  - Software Project Management
  - Hardware Project Management
  - Requirement Analysis



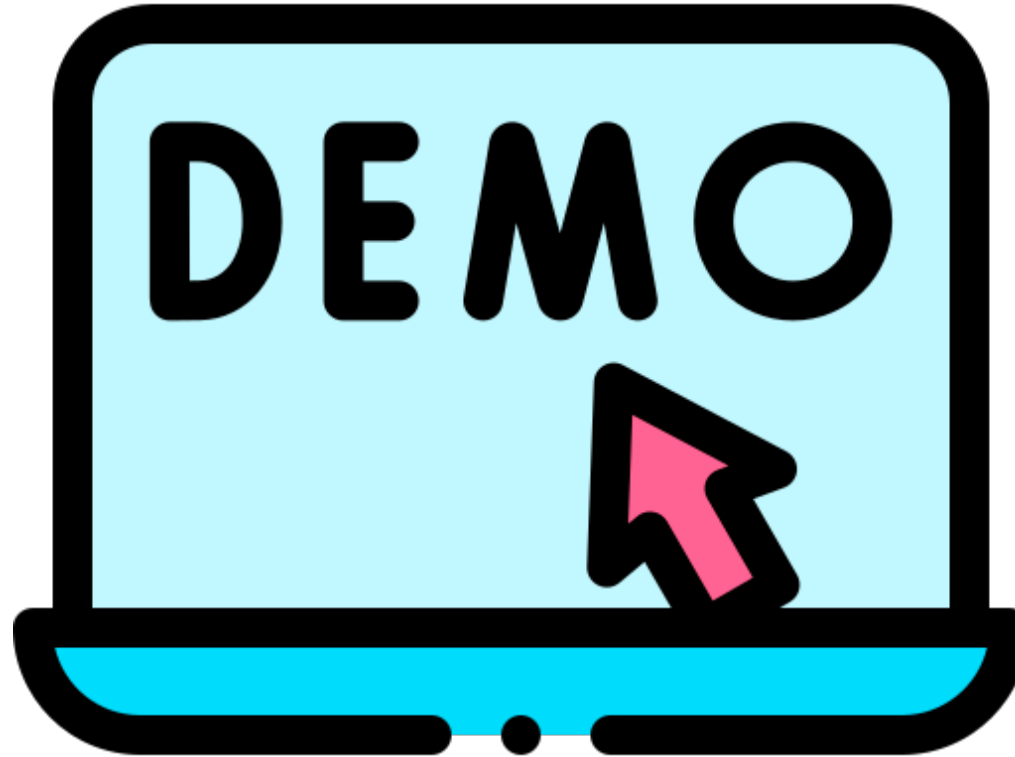
## Basics of Cryptology

# Symmetric Key Cryptography



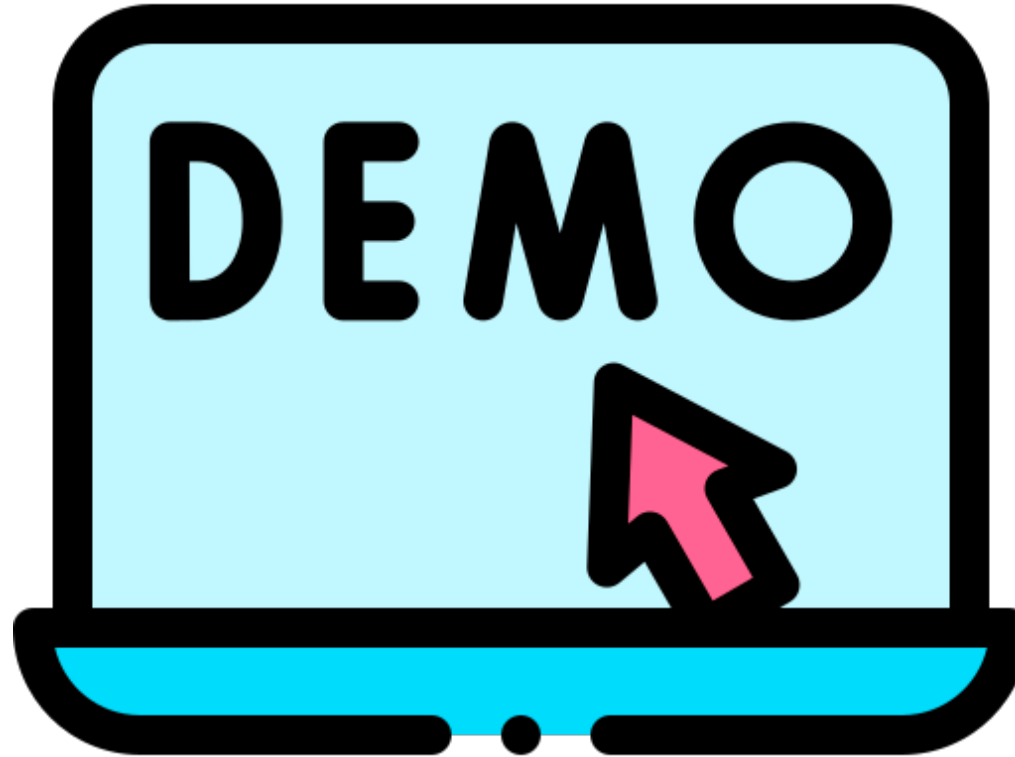
## Basics of Cryptology

# Demo - DES Encryption/Decryption



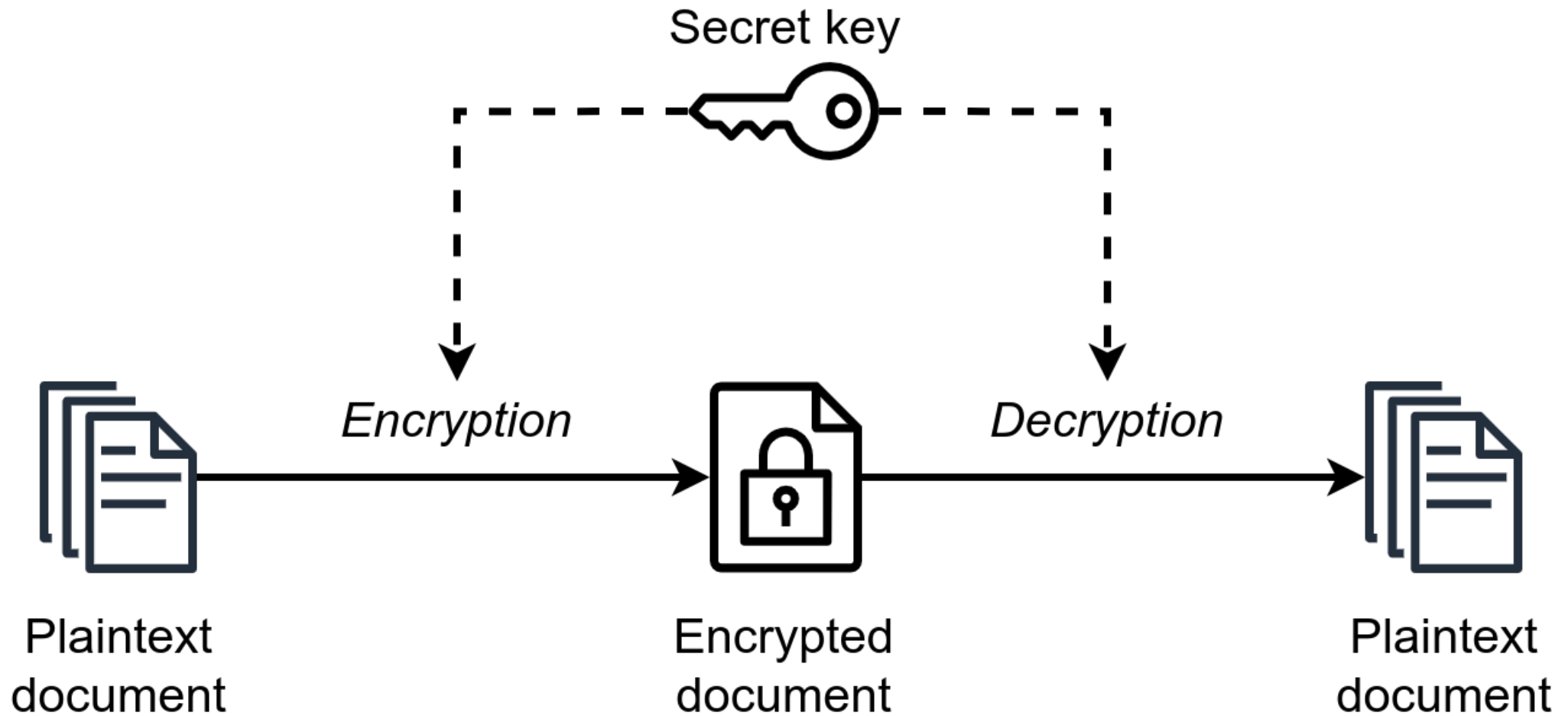
## Basics of Cryptology

# Demo - AES Encryption/Decryption



## Basics of Cryptology

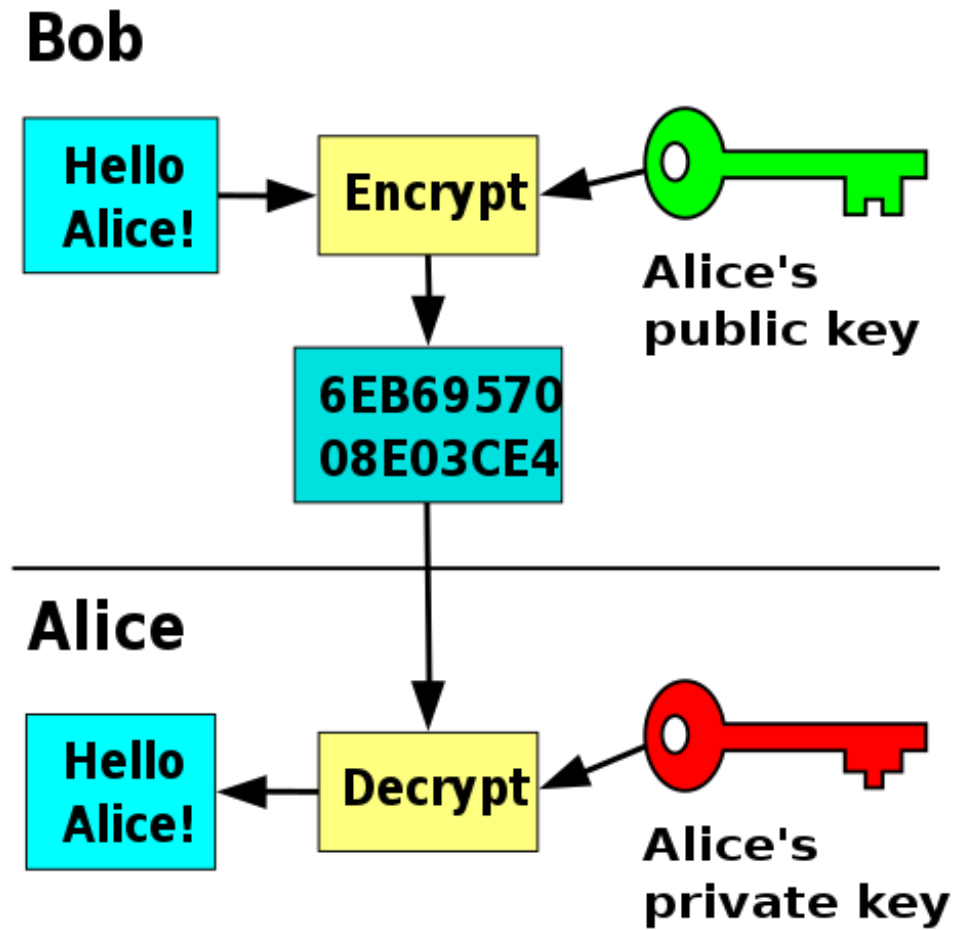
# Symmetric Key Cryptography





## Basics of Cryptology

# Asymmetric Key Cryptography



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# Basics of Cryptology

## Project - Subol Gas Detector

### Main Features;

- Gas Leakage Detection
- Temperature Measurement
- Humidity Measurement
- Wi-Fi (2.4 GHz) Connectivity
- Bluetooth Low Energy
- MQTT
- Sound Alarm
- RGB Led Indicator



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**II. Projects**

**III. New Gateway Project**

**IV. References**

**V. Q & A**

## Past Projects

## References

[1] <https://github.com/ondergormez>

[2]

[https://github.com/ondergormez/BLM5101\\_Computer\\_Security\\_and\\_Cryptography/tree/main/04-Presentation](https://github.com/ondergormez/BLM5101_Computer_Security_and_Cryptography/tree/main/04-Presentation)

[2] <https://ondergormez.wordpress.com/>

[3] <https://www.youtube.com/ondergormez>

[4] [https://en.wikipedia.org/wiki/Symmetric-key\\_algorithm](https://en.wikipedia.org/wiki/Symmetric-key_algorithm)

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Past Projects

Q & A





**Past Projects**

**Q & A**

**THANK YOU FOR LISTENING...**