

Izzat Almustafa

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Education

BSc Computer Science, University of Birzeit, Birzeit – Palestine

08/2020 – 07/2024

- GPA: 82.4/100
 - Key modules: Mobile App development, Web app development, Database administration, Unity Game Development, Encryption, Usable Security, Data Structures, Algorithms, Object Oriented Programming.
 - Project: Arabic Handwritten Recognition Website.
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Project Experience

Goon Squad Encrypting

12-2023 – 02/2024

- Lead a team of 3 to implement and enhance the Caesar and Columnar Transposition Ciphers in python that proved to be more robust against encryption attacks.
- Created a block chaining technique to enhance the encryption even further with hashing.
- Created a GUI to make the program user-friendly using pyqt.

StegoMailo

12/2023 – 02/2024

- Built the information hiding technique that allows for hiding and extracting secret information in videos and images using Steganography in python.
- Built the email communication that allows the sending and receiving of files with hidden information.
- Built the encryption techniques utilized for ensuring secrecy.
- Designed and built a database for an encryption key registry.
- Designed and built an API for communication between the application and database for public key access using ASP.NET Core.
- Assisted in designing and creating a GUI with many usable security concepts to make it user-friendly in a team of 4.

Math Master Defense

09/2023 – 02/2024

- Worked with a partner to build a 3D game as well as the scenery using the Unity 3D game engine.
- Designed the math concepts the game utilizes to help young students improve their math skills.
- Created all of the C# scripts the game utilizes.

Hotel Hub

04/2023 – 06-2023

- Lead a team of 3 to create a native Android application in Java.
- Assisted in designing and implementing a user-friendly GUI.
- Created and implemented a database using Google's firebase.

Arabic Handwritten Character Recognition

08/2023 – 10/2023

- Created image processing techniques to pre-processing data for training.
 - Created a CNN network for character recognition.
 - Deployed the CNN in .h5 format and in TensorFlow lite format to implement in both a website and a mobile application.
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Experience

Internship ASP.NET Core backend, at Expert Turnkey Solutions.

07-2023 – 09-2023

- Applied Object Relational Mapping in ASP.NET Core
 - Learned all about HTTPS requests and responses and how they are applied in ASP.NET Core
 - Designed databases in Microsoft SQL Server using both SQL and the ORM
 - Tied ASP.NET APIs with SQL Server Databases
 - Applied Dependency Injection in ASP.NET Core
 - Utilized Fluent APIs for custom database relationships
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CERTIFICATIONS AND COURSES

Data Analyst Nano Degree, Spark/Udacity – Remote

05/2024 – 08/2024

- Used the Pandas and Numpy libraries for data analysis
 - Used Advanced Data Wrangling techniques to gather, clean and assess data
 - Visualized results from data analysis using the Matplotlib and Seaborn Libraries
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SKILLS HOBBIES AND INTERESTS

Proficient: Python, Java, C#

Moderate: C, C++, SQL, HTML

Languages: English – Native, Arabic – Fluent

Hobbies and Interests: Cybersecurity, Steganography, Encryption, Computer Vision, Low-level Programming, Deep Learning, Game Development