Katia Hourani

Computer and Telecommunication Engineer Fresh Graduate from LU- Faculty of Engineer (2018-2023)

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Work Experience

QA Engineer at Whitestork   09/2023 – 03/2024

- Proficient in automated and manual testing methodologies, utilizing tools such as Cypress for automated testing.
- Experienced in conducting performance tests, including stress and load tests, using K6.
- Skilled in creating insightful dashboards using K6 Grafana to visually represent testing outcomes.
- Worked with security testing efforts using tools like Nmap, Nessus, and BurpSuite to ensure software system robustness and integrity.

Big Data Engineer at Blacksun (internship)   05/2023 - 09/2023

- I have a strong expertise in various data technologies such as Redis, Redshift, and Trino. I learned languages such as Spark, and Python, also have used these tools to manipulate and process large datasets effectively.
- I had the opportunity to deal with data in Redshift with detailed understanding of how data is distributed, and how to load data and to filter it properly.
- I also worked with trino, an SQL engine designed to query large data sets distributed over one or more data sources.

Personal Projects

Efficient Malware Detection using CNN - Final Year Project   03/2023 – 09/2023

- The main objective is to find optimal model to efficiently detect malwares and classify them as families.
- I compared 4 different models presented in research papers, In order to choose the one with lowest performance, and try to optimize it. We have even discovered combinations that significantly boosted its efficacy.
- We have conducted these experiments on the *MALIMG* dataset, yielding valuable insights into controlled environments. We have investigated on the *MaleVIS* dataset, uncovering the challenge of overfitting.

Plant Disease Detector using CNN – Mini-Project   01/2022 – 05/2022

- A robot controlled by Arduino that detects the presence of a plant through its QR code. Then, it takes serval photos of it and sends them via Raspberry Pi to a model programmed using python language to detect the disease. The detection of the disease is done by a **convolutional neural network model** called " **RetinaNet**".

Skills & abilities

• Python	• C /C++	• Tensorflow	• Machine Learning	• Analyze data	• SQL
• Spark	• Redis	• Trino	• Redshift	• Automated Testing	• Security Testing
• Communication	• Leadership	• Time Management	• Self Learning	• Project Management	

Certificates

Foundations: Data, Data, Everywhere Google from coursera (02/2024 – Present)

Udemy : Python for Data Science and ML (09/2023 – 11/2023)

AWS Cloud Practitioner (07/2023)

Python Course at Women In Tech (09/2022 - 12/2022)

Languages: English, French (Full Professional Proficiency) , Arabic (Native Proficiency)