



Tarek Mshalwat

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● ABOUT ME

I build the future with AI and machine learning. Discover my innovations at tbz.sy

● EDUCATION AND TRAINING

07/04/2019 – 07/11/2024 Damascus, Syria

BACHELOR OF "INFORMATION TECHNOLOGY ENGINEERING" , MAJOR: AI/MACHINE LEARNING Syrian Virtual University

Website svuonline.org | **Final grade** 79.28% | **Level in EQF** EQF level 6

Damascus, Syria

IELTS ACADEMIC IDP

Website <http://ielts.ucles.org.uk> | **Final grade** 6.5 | **Valid until** 08/05/2027

Link ldp.com

● WORK EXPERIENCE

 **SELF-EMPLOYED "FREELANCER"** – HOMS, SYRIA

SOFTWARE DEVELOPER – 04/04/2021 – CURRENT

1. Created **tailored Python scripts and applications** for diverse clients, **automating tasks and addressing specific challenges**.
2. Developed and maintained **web applications using the Django framework, Python, HTML, CSS, and JavaScript**.
3. Collaborated with clients to **gather requirements, create mockups, and deliver projects on time and within budget**.
4. Collaboration in an **agile team**, participation in **Scrum meetings**.
5. Optimization of application performance by **30% through code refactoring**.

 **AI TEAM LEADER "GREEK ORTHODOX ARCHDIOCESE OF HOMS"** (مطرانية حمص للروم الأرثوذكس) – HOMS, SYRIA

VOLUNTEERING DEVELOPMENT MANAGER – 01/05/2024 – CURRENT

1. Led and trained a volunteer AI team to develop a predictive model for **Gassaniyah Orthodox Schools** aimed at enhancing educational outcomes.
2. Supervised the creation of a machine learning model to **predict student performance in the Syrian General Secondary Education Certificate (البكالوريا)**.
3. Coordinated data preprocessing, feature engineering, and model evaluation using **PyTorch and TensorFlow**.

4. Integrated educational insights into AI workflows to support teachers in identifying at-risk students and tailoring learning strategies.
5. Promoted AI literacy within the school community through internal workshops and mentoring sessions.

PROJECTS

10/05/2024 – 15/05/2024

Self-Driving Car Simulation

Engineered a self-driving car simulation in Unity3D, utilizing NEAT to empower AI navigation and obstacle avoidance.

- The AI-driven vehicle successfully learned to navigate and avoid obstacles, demonstrating the effectiveness of NEAT for autonomous vehicle control.
- This project showcased the effectiveness of NEAT in developing high-performing neural networks for autonomous vehicle control, achieving stable self-driving capabilities in a simulated environment.

04/11/2023 – 25/01/2024

SmartCare Chat-Bot

Constructed a sophisticated AI-powered chatbot that accurately diagnoses illnesses and responds to inquiries in real-time.

- Developed a website chatbot using Django, Python, neural networks, natural language processing, and machine learning to assist patients and doctors in the health sector.
- The chatbot recognizes patient questions, provides automated answers, diagnoses diseases based on medical information, and offers instant customer support and books appointments.

Link <https://youtu.be/W4R6GJRiutw?si=sDxijxGsVs9ugQ50>

10/07/2023 – 15/11/2023

Bitcoin Price Prediction using LSTM with Yahoo Finance

Developed a model using Long Short-Term Memory (LSTM) networks in Python to predict Bitcoin prices, leveraging historical data from Yahoo Finance. Utilized the yfinance library to retrieve historical Bitcoin data from Yahoo Finance, performed data preprocessing, and trained the LSTM model. Visualized the predicted prices against actual prices using Plotly.

Link https://colab.research.google.com/drive/1_YeP7pNS5_WxNrOa5i73jHuQ459v0buv?usp=sharing

15/09/2021 – 20/01/2022

Multi choice exam Mobile Application

Engineered a mobile application project, leading cross-functional teams to achieve timely delivery and impactful features.

- Created an Android application enabling SVU students to navigate and complete multiple-choice assessments efficiently on the go.
- the project leveraged the core Android development tools, with Java as the primary language, to create a functional mobile application.

LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	B2

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

debug software | Wireshark | network engineering | coordinate events

Web Development

Multiple PHP (Laravel) Projects | Web Development (Python/Django) | Git | GIT version control, Linux Command | CSS | computer programming | JavaScript Framework | cooperate with colleagues | Python (computer programming)

Ai/ML

Neural Network | Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) | deep learning | machine learning | principles of artificial intelligence | artificial neural networks | programming: Python, MATLAB and SQL | Keras

Management Skills

project management | engineering processes | train volunteers | work as a team | understand spoken English | lead a team | academic English | perform project management