FERAS KHIRFAN

**AI and Software Developer**

***Jordanian (Transferable iqama)***

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# PROFILE

Computer Science graduate specialized in Artificial Intelligence with hands-on experience in developing end-to-end software solutions. Skilled in machine learning (TensorFlow, Scikit-learn), backend APIs (Flask, Django), and front-end development (HTML, CSS, JavaScript). Delivered 5+ AI-driven and full-stack projects including medical AI diagnostics, robotic systems, and real-time web apps. Passionate about continuous learning, innovation, and building scalable systems.

# WORK EXPERIENCE

AI AND SOFTWARE DEVELOPER

**Sphereka (Remote Job)**

*July 2024 – April 2025*

* Engineered a convolutional neural network (CNN) for white blood cell classification using TensorFlow, improving diagnostic automation.
* Built backend APIs with Python, Flask, and Django, ensuring seamless data flow and system integration.
* Created user interfaces using HTML, CSS, and JavaScript to improve user interaction and responsiveness.
* Contributed to the development of ERP system modules in Python and Django, streamlining inventory and sales management.
* Preprocessed and trained large datasets for AI models, optimizing performance through testing and adjustments.

ORGANIZER AND MENTOR

**Middle East University**

*March 2024 - June 2024*

* Mentored students building and developing sumo robots and IoT projects.
* Organized the exhibition and a sumo robot fighting competition.

FULL STACK DEVELOPER

**Startappz**

*August 2023 - October 2023*

* Developed and implemented a login and signup engine, using python backend (Flask) and web frontend.
* Created and integrated an online store with the engine.
* Created an AI model for clothing recommendation.

# EDUCATION

**Middle East University**

2020 - 2024

Bachelor of Science in Computer Science/Artificial Intelligence

# CERTIFICATIONS

* Introduction to AI - 2023
* IoT Applications - 2023
* OpenCV Bootcamp (Computer Vision, Python, Image Processing) - 2024
* Crash Course on Python – 2025
* Google AI Essentials – 2025

# PROJECTS

* **Attendance System for the Educational Fields Using Face Recognition:** 
  1. Developed a face recognition-based attendance system to streamline and automate attendance tracking.
  2. **Measurable Achievements:**
     + Reduced manual attendance processing time by 80%, increasing overall classroom efficiency.
     + Achieved a 95% accuracy rate in identifying and recording student attendance.
     + Decreased instances of attendance fraud by implementing a secure, real-time verification process.
* **Security System Using Face Recognition,** used in places that require authority for certain people.
* **Sumo Robot for Sumo Competitions,** 4 wheels robot which was used to compete in sumo robot competitions fully autonomous
* **Portfolio Webpages for Companies,** created and launched some webpages for several companies
* **Data Analysis for Hotel Reviews Project,** used to help analyze hotels reviews to find positive and negative reviews using ML technologies and NLP
* **File Transfer System,** a secure file transfer web app
* **Business cards reader,** an OCR card reader used to extract data

# ACHIEVEMENTS

* **Scored first place in the university’s local sumo robot competition in 2023**
* **HTU National Sumo Robotics Tournament 7/2023 Top 16**
* **HTU National Sumo Robotics Tournament 7/2024 Top 32**

# SKILLS

* **Programming Languages**: Python, C#/C++, PHP, JavaScript, SQL, NoSQL
* **Web Development:** HTML, CSS, JavaScript, Flask, MongoDB, Backend, Full stack development, Django
* **AI/ML & Data Science:** Machine Learning, Deep Learning, NLP, Computer Vision, TensorFlow, PyTorch, Scikit-Learn, WEKA, Orange Data Mining.
* **Data Engineering:** Data preprocessing, model training, deployment pipelines.
* **Robotics & IoT:** Robotics, IoT, Microcontrollers, AutoDesk Inventor (3D Modeling).
* **Tools & Software:** Microsoft Office, GitHub, Ubuntu
* **Soft Skills:** Working under pressure, team player, critical thinking, leadership, problem solving, communication, motivation, flexibility, fast learning

# VOLUNTEERING

* **Volunteered in Arab Robotics & AI Association 2024 (ARA)**

# LANGUAGES

* **Fluent in Arabic, proficient in English**

# REFRENCES

**Available upon request**