Mustafa Taha

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Profile

AI Engineer & Full-Stack Developer with hands-on experience building scalable AI/ML solutions, predictive models, and intelligent web systems. Skilled in reinforcement learning, NLP, computer vision, and time-series forecasting using PyTorch, TensorFlow, Hugging Face, and Scikit-learn. Experienced in full-stack development (MERN, Spring Boot, Django, Flutter) with deployment on AWS/Docker. Delivered impactful solutions, including drone navigation, traffic OCR, AI recommenders, and scalable social/e-commerce platforms.

Technical Skills

- **AI/ML:** PyTorch, TensorFlow, Hugging Face, Scikit-learn, OpenCV, RLlib
- **Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn, SQL, Excel
- **Programming:** Python, Java, JavaScript, Dart, Bash, C, Assembly, Verilog
- **Full-Stack:** React, Node.js, Express, Django, Spring Boot, REST APIs, JWT
- **Databases:** MongoDB, MySQL, SQLite, Firebase
- **Mobile:** Flutter (Dart)
- **DevOps/Cloud:** Docker, AWS, Git, CI/CD, Postman, Socket.IO
- **Systems:** Linux, Networking (TCP/IP, VPNs, VLANs)

Professional Experience

Data Analyst & AI Engineer (Freelance) – Self-Employed — Remote　　　　*2020 – Present*
- Designed and deployed 10+ ML models (forecasting, classification, CV, RL), improving client decision-making efficiency by up to 35%.
- Conducted full-cycle data workflows (collection, preprocessing, feature engineering, visualization), reducing data prep time by 40%.
- Delivered AI-powered APIs and dashboards, boosting operational efficiency by 25%.
- Developed and deployed full-stack and mobile apps (MERN, Spring Boot, Flutter) on AWS/Docker, supporting 1,000+ active users.
- Managed commercial operations (2020–2024) with annual trade volume 80M+ ILS, ensuring 100% on-time delivery.

System Administrator – Exalt Technologies — Ramallah　　　　*2018 – 2019*
- Automated system administration tasks and CI/CD workflows, reducing manual effort by 50%.
- Configured VPNs, VLANs, and Dockerized environments for 200+ endpoints, improving network security.

Selected Projects

AI / ML Projects

Reinforcement Learning (PyTorch, RLlib, Hugging Face) [GitHub]
– Trained RL agents (DQN, PPO, A2C, SAC, HER) for robotics, drones, and multi-agent systems.
– Benchmarks: PandaPickAndPlace, Drone Navigation, SoccerTwos, Atari.

FoodApp – Food Image Classification (PyTorch, Flask, OpenCV) [GitHub]
– Collected and preprocessed dataset; achieved 93% accuracy (CNN/ViT).
– Deployed as Flask REST API for real-time recognition.

Traffic Monitoring – Car Detection & OCR (OpenCV, TensorFlow, YOLO) [Private]
– Real-time detection of vehicles and license plates; integrated with live dashboards.

Smart E-commerce AI Recommender (Flask, Scikit-learn, MySQL) [GitHub]
– Built recommendation engine with association rule mining and forecasting.
– Integrated Flask API with WooCommerce and MySQL backend.

Full-Stack Projects

LinkUp – Social Media Platform (MERN, Socket.IO, AWS) [GitHub]

  – Developed real-time platform with posts, messaging, notifications, and online presence.

  – Secure REST APIs, JWT auth, role-based access; deployed on AWS EC2.

PalRent – Apartment Booking System (Spring Boot, MySQL) [GitHub]

  – Designed multi-role booking system with Spring Security; robust MySQL data persistence.

Istanbol Mall – E-Commerce Platform (MERN, Flutter, AWS) [GitHub]

  – Cross-platform web/mobile e-commerce; integrated payments, notifications, deployed on AWS.

Education

B.Sc. Computer Engineering – Birzeit University — Ramallah	2013–2018
Full-Stack Developer Certificate – AXSOS Academy / Coding Dojo — Ramallah	Apr–Sep 2024

- 1,200+ hours of intensive training; delivered 3 team projects (Agile).

Certifications

• Deep Reinforcement Learning – Hugging Face	Aug 2025
• AI/ML Course with Real Graduation Project – Hsoub Academy	Aug 2025
• Django Masterclass: Build 9 Projects – Udemy	Jun 2025
• Networking Fundamentals for CCNA – Udemy	May 2025
• Cisco DCAIE: AI on Cisco Infrastructure – Cisco	Apr 2025
• Flutter & Dart: The Complete Guide – Udemy	Jan 2025
• DevOps Certification – Manara	Dec 2024
• Flutter Bootcamp with Dart – Udemy	Oct 2024

Languages

Arabic (Native), English (Advanced)