

# Mustafa Taha

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## Profile

Highly skilled **AI Engineer** and **Full-Stack Developer** with hands-on experience in building scalable AI-driven applications and full-stack solutions. Expert in **reinforcement learning, computer vision, NLP, and time-series forecasting** using **PyTorch, TensorFlow, Transformers, OpenCV, RLib**. Experienced in developing robust web and mobile platforms using **MERN, Spring Boot, Django, Flutter**, and deploying them on **AWS/Docker**. Proven record of delivering real-world projects such as autonomous drone navigation, traffic monitoring (OCR & car detection), and scalable e-commerce and social platforms. Passionate about building intelligent systems and end-to-end applications that solve complex, real-world problems.

## Technical Skills

- **AI / ML & Data Science:** PyTorch, TensorFlow, Keras, Hugging Face, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Stable-Baselines3, OpenAI Gym, RLib, BERT, LSTM, CNN, RNN, Transformers, Reinforcement Learning (DQN, PPO, SAC, A2C, HER)
- **Programming Languages:** Python, Java, JavaScript (ES6), Dart, Bash, C, Assembly (8086), Verilog
- **Full-Stack Development:** React, Node.js, Express, Django, Flask, Spring Boot, MERN, Tailwind CSS, Bootstrap 5, Material UI, HTML5, CSS3, SQL (MySQL, SQLite), MongoDB, Firebase, REST APIs, JWT Authentication, CI/CD, Docker, AWS (EC2, S3)
- **Mobile Development:** Flutter, Dart
- **Tools:** Postman, Git, GitHub, AJAX, JSON, Socket.IO, Trello
- **Systems & Networking:** Linux (Bash, services, systemd), Networking (TCP/IP, VPNs, VLANs)

## Technical Projects

### AI & ML Projects

**Reinforcement Learning Projects** (*Python, PyTorch, Stable-Baselines3, OpenAI Gym, RLib, Hugging Face Hub*) [[GitHub](#)]

- Developed RL agents using **DQN, PPO, A2C, SAC, HER** for robotics simulations.
- Key environments: **PandaPickAndPlace-v3** (robotic manipulation), **Drone Navigation & Maze Solving** (autonomous exploration), **SoccerTwos** (multi-agent), **CartPole/Atari** (benchmarks).
- Deployed models on Hugging Face Hub achieving high reward rates and reproducibility.

**FoodApp – Food Image Classification** (*Python, PyTorch, TensorFlow, Flask, OpenCV, CNN/ViT*) [[GitHub](#)]

- Built dataset via web scraping; preprocessed with OpenCV, achieving **93% accuracy**.
- Deployed as Flask REST API with user interface for real-time classification—applied in robotic vision.

**Traffic Monitoring System – Car Detection & OCR** (*Python, OpenCV, TensorFlow, YOLO*) private

- Developed a real-time traffic monitoring system for detecting vehicles and license plates with high accuracy.
- Optimized the pipeline for live surveillance, automated data logging, and seamless integration with monitoring dashboards.

**Smart E-commerce AI Recommender** (*Python, Flask, Scikit-learn, Pandas, MySQL, Mlxtend*) [[GitHub](#)]

- Created AI-driven recommendation system with association rule mining and time-series forecasting.
- Deployed via Flask API integrated with WooCommerce/MySQL, supporting high-scale predictions.

**Deep Learning Projects** (*PyTorch, TensorFlow, Hugging Face, Transformers*) [[GitHub](#)]

- Completed 15+ projects in NLP, CV, and time-series (BERT for Fake News, LSTM for Sentiment, CNN for CIFAR-10/MNIST).
- Features clean code, visualizations, and production-ready notebooks.

### Full-Stack Projects

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

- Developed scalable social platform with real-time posts, messaging, notifications, and online presence tracking.
- Implemented secure REST APIs, JWT authentication, and role-based access control.
- Deployed on AWS EC2 ensuring high availability and fault tolerance.

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

- Developed multi-role booking platform with Spring Security and responsive UI.
- Utilized MySQL for reliable data persistence.

### Istanbul Mall – E-Commerce Platform (*MERN, Flutter, AWS*) [\[GitHub\]](#)

- Engineered cross-platform app with React and Flutter, deployed on AWS.
- Integrated secure payment, notification, and real-time features.

### ReadEase – Online Bookstore (*Django, AJAX, Bootstrap*) [\[GitHub\]](#)

- Built e-commerce site with Django APIs and dynamic AJAX features.
- Designed responsive layout with Bootstrap.

## Education

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- **Full-Stack Developer Certificate** – AXSOS Academy / Coding Dojo — Ramallah, Palestine *April – September 2024*
  - Completed 1,200+ hours, building 3 team projects with agile methodology.
- **Bachelor's in Computer Engineering** – Birzeit University — Ramallah, Palestine *2013 – 2018*

## Certifications

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- **Deep Reinforcement Learning Course** – Hugging Face — [\[Certificate\]](#) *August 2025*
- **AI/ML Course with Real Graduation Project** – Hsoub Academy — [\[Certificate\]](#) *August 2025*
- **Django Masterclass: Build 9 Projects** – Udemy — [\[Certificate\]](#) *June 2025*
- **The Complete Networking Fundamentals Course for CCNA** – Udemy — [\[Certificate\]](#) *May 2025*
- **Cisco DCAIE: AI on Cisco Infrastructure** – Cisco *April 2025*
- **Flutter & Dart: The Complete Guide** – Udemy — [\[Certificate\]](#) *January 2025*
- **DevOps Certification** – Manara *December 2024*
- **The Complete Flutter Development Bootcamp with Dart** – Udemy — [\[Certificate\]](#) *October 2024*

## Professional Experience

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- Technical Support Specialist** – Bent One (BCI Group) — Ramallah, Palestine *March 2025 – April 2025*
  - Resolved complex network and system performance issues, improving service reliability and uptime.
  - Trained and mentored Level 1 support agents, reducing escalations by 30%.
  - Maintained and updated internal troubleshooting documentation to streamline support workflow.
  - **Reason for Transition:** Left this role to pursue opportunities more closely aligned with my career aspirations in Full-Stack Development, Software Engineering, and AI.

- Commercial Intermediary** — Self-Employed — Ramallah, Palestine *Sep 2020 – Mar 2024*
  - Acted as a trusted intermediary between two major companies, managing over **80 million ILS** in annual trade volume.
  - Handled high-stakes negotiations, logistics coordination, and business conflict resolution.
  - **Transition to Tech:** Operations concluded due to the regional conflict (War of Gaza), prompting a dedicated career pivot. Completed over 1,200 hours of intensive technical training, building a strong portfolio of full-stack and AI-based applications.

- System Administrator** – Exalt Technologies — Ramallah, Palestine *July 2018 – November 2019*
  - Deployed and managed virtual environments using Ovirt and Docker, improving deployment efficiency.
  - Configured network infrastructure including VLANs, VPNs, and routers to support secure connectivity.
  - Collaborated with developers to automate system tasks, contributing to a smoother CI/CD process.

## Languages

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Arabic (Native), English (Advanced)