MARWAH ABDULLAH SABEI

Web & AI Developer

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PROFESSIONAL SUMMARY

Web and AI developer focused on building full-stack web applications, computer vision systems, and AI-powered interactive experiences. Combines React, Node.js, Python, SQL, YOLO, and LLM integration to turn ideas into working products, from model training to deployed interfaces. Has led project teams, built live technology for corporate events, and competed in national AI and robotics competitions, including a 1st-place win at the Riyada AI Hackathon.

CORE COMPETENCIES

AI & Computer Vision: Object Detection (YOLO) | Deep Learning (PyTorch CNN) | Hand Tracking (MediaPipe) | LLM Integration & Prompting | Edge AI
Technical: React | JavaScript | TypeScript | Node.js | Express | Python | SQL | Tailwind CSS | Figma
Leadership: Project Leadership | Team Collaboration | Workshop Facilitation | Presentation & Public Speaking

PROFESSIONAL EXPERIENCE

Amjad Watan | Riyadh, Saudi Arabia

Innovation and Technology Intern (Co-op)

Sep 2026 - Dec 2026

- Building the front end and UI of an AI photo booth that turns visitor photos into portraits through the eras of the Kingdom, delivered live at corporate National Day events.
- Developing companion apps for event activations, including an interactive quiz experience built with React, TypeScript, and JavaScript.
- Completing a structured 12-week program across UI/UX, React, Node.js APIs, real-time apps with WebSockets, and applied AI alongside live client projects.

AI Arena | Riyadh, Saudi Arabia

AI & Robotics Teaching Assistant (Intern)

Aug 2025 - Sep 2025

- Coached middle-school students in robotics fundamentals and AI concepts to prepare them for the World Robot Olympiad (WRO).
- Co-led hands-on technical workshops at the “Sayfak Thaki” camp for the gifted, run with the Ministry of Education, MCIT, and SAFR, simplifying complex concepts for complete beginners.

PROJECTS & ACHIEVEMENTS

- **MS SmartScan (Project Lead & AI Lead):** Led the team building a medical web tool that detects multiple sclerosis lesions on brain MRI scans, training a YOLO26s model on MSLesSeg FLAIR data (65.0% precision, 60.1% mAP50) that runs fully offline on a Raspberry Pi 5; exhibited at the World Day for Safety and Health at Work Exhibition 2026. GitHub
- **Hackathon Achievement:** Won 1st place at the Riyada AI Hackathon with MS SmartScan, leading the project and owning the AI work.
- **Arabic LLM Arena:** Built a blind side-by-side evaluation platform comparing HUMAIN’s ALLaM and OpenAI on Arabic and Saudi dialect, with live streaming, per-category Elo ratings, and an LLM-as-a-judge. GitHub
- **Harf fil Hawa:** Built a browser app that reads Arabic letters written in the air, combining MediaPipe hand tracking with a CNN trained in PyTorch on real handwriting (84% accuracy on unseen writers). Live demo | GitHub
- **Raf AI-Riyadh:** Built an AI book recommender chatbot themed around the Riyadh International Book Fair, integrating HUMAIN’s M3 Preview LLM through its API. Live demo
- **Robotics Competitions:** Won 1st place at the RoboRAVE Saudi Finals and The Build Award at the National VEX U Competition, qualifying for RoboRAVE International (Japan) and VEX Worlds 2026 (USA), plus 3rd place at National Satthon 2 and the National Summer Robotics Championship.

EDUCATION

Associate Diploma in Web Programming & Development | Digital Technical College for Girls, Riyadh | Aug 2024 - 2027
Relevant focus: front-end and back-end web development, database design, SQL, object-oriented programming, software engineering, and team projects.

VTech Vision & Technology Bootcamp | Oct 2025 - Nov 2025
Relevant focus: technology, robotics, and digital skills.

Digital Manufacturing Summer Bootcamp, Robotics Track | SAFR × AI Arena | Jun 2025 - Jul 2025
Relevant focus: sensors, automation, and physical computing; designed, prototyped, and programmed a working robot as a team.

CERTIFICATIONS

- **Python 101**, Satr (Tuwaiq Academy) | Issued 2026 | Python, Programming Fundamentals
- **Python 102**, Satr (Tuwaiq Academy) | Issued 2026 | Python
- **Command Line 101**, Satr (Tuwaiq Academy) | Issued 2026 | Command Line, Linux
- **IT Essentials (ITE 7.01)**, Cisco Networking Academy | Issued Dec 2024 | Hardware, Operating Systems, Networking
- **Future AI Programmers Program**, SDAIA & Ministry of Education | Issued Dec 2023 | AI, Programming | 25 hours, with excellence

TECHNICAL SKILLS

JavaScript | TypeScript | Python | PHP | Java | C++ | SQL | HTML | CSS | React | Node.js | Express | REST APIs | Socket.IO | Tailwind CSS | SQLite | YOLO | PyTorch | MediaPipe | Roboflow | Kaggle | Git | GitHub | Figma | Raspberry Pi | Arduino

LANGUAGES

Arabic: Native | **English:** Fluent