

ANAS JIHAD AL HOMSI

FULL-STACK DEVELOPER

Dimashq, Syria | mhab36817@gmail.com | +963959975058 | www.linkedin.com/in/anas92876

SUMMARY

Full-stack developer with hands-on experience building web applications, IoT monitoring systems, and robotics solutions. I work with React, Next.js, Node.js, MongoDB, and ESP8266 microcontrollers to create dashboards and automation systems. Currently teaching robotics to students and working on submarine monitoring technology. Earned 2nd place globally in a robotics competition.

PROFESSIONAL EXPERIENCE

Robotics & Programming Trainer, MAPS Organization	Sep 2024 - Present
<ul style="list-style-type: none">Teach Arduino, ESP8266, and sensor programming to students in hands-on workshops.Lead circuit building and robot programming sessions, helping students debug their projects.Mentor competition teams on technical planning and implementation.Guide students through real-world engineering challenges and teamwork exercises.	
IoT Developer, Hydro-Quest Submarine Project	Jan 2024 - Present
<ul style="list-style-type: none">Built a monitoring system for underwater submarine tracking GPS location, water temperature, and quality metrics.Created a real-time dashboard with React and Node.js that displays sensor data through WebSocket connections.Programmed ESP8266 firmware to read from GPS, DS18B20 temperature sensors, and TDS water quality sensors.Set up user authentication and role-based access for the monitoring interface	
Software Lead, Brilliant Blue Robotics Competition	Aug 2023 - Dec 2023
<ul style="list-style-type: none">Built the control dashboard for our competition robot with user authentication and data visualization.Connected sensor data streams to the interface and worked with the hardware team on integration.Contributed to achieving 2nd place worldwide in the competition.	
Full-Stack Web Developer (Frontend & Backend)	Freelance
<ul style="list-style-type: none">Develop complete web applications using React, Next.js, Node.js, and Express.Build responsive interfaces, reusable components, and optimized UI/UX flows.Implement backend APIs, authentication systems (JWT), and database models using MongoDB.Integrate real-time features using WebSocket and structured JSON data.Follow clean code principles, performance optimization, and secure API design.Deploy applications on platforms like Netlify, Render, and Railway.	

PROJECTS

Hydro-Quest IoT Dashboard	Jan 2024 - Present
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Multi Aid Programs - MAPS project

- Real-time submarine monitoring with GPS tracking, temperature sensors, and water quality alerts.
- Built with React, Node.js, MongoDB, and WebSocket for live data streaming.

FashionHub E-commerce Platform

Aug 2025 - Present

Clothing company project - FashionHub project

- Online clothing store with user accounts, shopping cart, order management, and admin dashboard.
- Full-stack application using React, Node.js, Express, and MongoDB.

Advadev Agency Website

Apr 2025 - Present

Personal Project

- Business website built with Next.js featuring smooth animations and responsive design.

SKILLS

React.js	Node.js	Accessibility
Next.js	Mongo DB	Responsive Design
Express.js	IoT systems	Git & GitHub
Rest APIs	Sensor Integration	Postman
Arduino	Websocket	Cloud Deployment
ESP8266	VS Code	Serverless Hosting

EDUCATION

Undergraduate Student (Year 1)

medicine

Building a strong foundation in mathematics, physics, and core engineering principles. Actively developing practical skills in software development, automation, and IoT through real projects, competitions, and hands-on technical work.

ADDITIONAL INFORMATION

- **Languages:** Arabic (Native), English (Fluent), French (Basic)
- **Certifications:** Web Development (React, Node.js), Microcontrollers & Embedded Systems, Robotics Competition Certifications, Automation Tools (n8n, API integrations)
- **Awards/Activities:** 2nd Place Worldwide - Brilliant Blue Submarine Robotics Competition (2023), Teaching robotics and programming workshops at MAPS Organization