BOUCHACHI MEHDI
Web developer

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EDUCATION

Licence - Information Systems & Software Engineering
Saad Dahlab Univ - Blida 1
(2022 - 2025)

Master 1- Software Engineering
Saad Dahlab Univ - Blida 1
(2025–Present)

SOFTWARE & TOOLS

- VS Code
- Git / GitHub
- Figma
- Trello / ClickUp
- NetBeans
- Canva
- Adobe Illustrator

LANGUAGE

- Arabic
- English

PROFILE

Junior front-end developer driven by clean code, UI architecture, and constant learning. I build maintainable apps with React/JavaScript and created AeroLab, a multi-tenant B2B platform that controls a low-cost automated aeroponic system using N-master/N-slave microcontrollers over MQTT/REST/ESP-NOW. I've coached the ITC Programming Competition , led an advanced front-end team , and teach front-end while developing Java/JS/React courses. From my first Java/Swing + MySQL app (2021) to today, I aim to join a team where I can grow fast and ship reliable, user-focused products.

WORK EXPERIENCE

AeroLab Startup Project (IoT + Web)   JUNE – 2025
Founder

- Built a multi-tenant B2B platform controlling a low-cost automated aeroponic system.
- Designed UI architecture, auth/roles, and device control flows; integrated MQTT / REST / ESP-NOW with N-master/N-slave microcontrollers.
- Engineered custom 3D-printed hardware housing with sensors; implemented calibration and fail-safe routines for reliability.

IT Competitive Programming   Dec – 2024
Coach

- Coached student teams for the ITC Programming Competition, ran problem-solving sessions and code reviews.

IT Community (ITC)   2023 – 2024
Front-end Team Lead & React Instructor

- Trained teammates from zero to advanced React: JS fundamentals → React core → state mgmt → testing → performance.
- Designed a project-based curriculum, shipped real-world apps (auth, dashboards, API integration, roles/permissions).
- Taught async patterns (fetching, caching), and form/state libraries.

Freelance
Desktop Application - Equester Club (2021)

- Built a desktop management app from scratch for club operations (members, payments simple, scheduling).

Web developer 2023 - Present

- Scoped, designed, and built production web apps and landing pages.
- Collaborated with clients on specs, timelines, and iterations.

SKILLS

- **Front-end:** React, Next.js, TypeScript, JavaScript (ES6+), HTML5/CSS3, Tailwind, GSAP, Styled-Components, CSS-Modules , component architecture, accessibility, performance.
- **Back-end & Data:** REST APIs, Node.js/Express (basics), Supabase (Auth/DB/Storage), PostgreSQL/MySQL/MongoDB (CRUD, schema design).
- **IoT & Protocols:** Microcontrollers (N-master/N-slave topology), sensors, MQTT with BrokerMQ / ESP-NOW / REST, device calibration.