Houda Chaouch

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PROFILE

Software Engineering Engineer and Full Stack MERN and React Native developer. I design and develop high-performance, scalable, and user-centered web and mobile applications, adhering to best practices and code quality. Flexible, organized, and proactive, I am motivated by continuous learning and solving new technical challenges.

EDUCATION

National Engineering Diploma in Software Engineering   2022 – 2025
ISSAT Sousse

Integrated Preparatory Cycle   2020 – 2022
ISSAT Sousse

Baccalaureate in Experimental Sciences   2019 – 2020
Said Abou Baker High School

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, Java
Frontend / Mobile: React.js, React Native (Expo), Redux Toolkit, Context API, Zustand, Android Studio, HTML, CSS, Tailwind, Bootstrap, Material UI
Backend: Node.js, Express.js, Supabase, Firebase
Databases: MongoDB, MySQL, PostgreSQL
Testing/Tools: Jest, Git, Docker, Swagger, Postman, Jira, Trello, Jupyter, Colab, Figma, Framer, Linux

PROFESSIONAL EXPERIENCE

Final Year Project Intern – Web and Mobile Development   Feb 2024 – Jun 2024
Smart Logger, Sousse, Tunisia
- Design and development of a digital system for monitoring and quality control of engines, via a web application (administrators and production managers) and mobile application (operators and quality controllers).
- Implementation of key features: secure authentication, employee management, operations, tasks and defects, engine sheets with QR codes, real-time monitoring, notifications, comments, automatic reports, and responsive, ergonomic, bilingual (French/English) interface with light and dark modes.
- Technologies: React.js, React Native (Expo), TypeScript, Node.js/Express, MongoDB Atlas, Redux Toolkit, Zustand, Tailwind, Material UI, Socket.IO, Nodemailer, Jest.

Full Stack MERN Development Intern   Jun 2024 – Aug 2024
Officent IT, Sousse, Tunisia
- Contribution to the development of a cross-platform solution for the hotel industry, including a super admin dashboard and advanced management pages with filters, pagination, and analytics.
- Development and documentation of REST APIs, improved application performance by 10%.
- Technologies: React.js, Node.js/Express, MongoDB, Redux Toolkit, React Hook Form, Swagger.

Web Development Intern   Jul 2023 – Oct 2023
Sierra Bravo Intelligence, Tunis, Tunisia
- Development of a web application for sports video analysis (football/basketball) with a modern and responsive interface.
- Implementation of essential features: responsive animated landing page, secure authentication, video upload and management, favorites and notifications.
- Technologies: React.js, Node.js/Express, MySQL, Material UI.

CERTIFICATIONS

- AWS – Introduction to Cloud Computing (Orange Digital Center, 2025).
- AWS – Machine Learning Foundations (AWS Academy, 2024).
- Power BI Workshop (ISSAT Sousse, 2024).
- AI & Big Data & Cloud (ATIA, 2023).
- Front-End Development with React (Coursera, 2023).
- HTML5 Essentials (LinkedIn, 2022) and Basic Web Training (Microsoft Club ISSAT, 2022).

EXTRACURRICULAR ACTIVITIES

- Instructor – Workshop on CSRF attacks, guiding 30 participants during a CTF organized by the Cyber Trace club (May 2024).
- Member – Microsoft Club ISSAT Sousse (2021–2023).
- Logistics Manager – Cyber Trace Club (2023–2024).
- Participant – Coding Moon Challenge (2023).

LANGUAGES

Arabic (native), French (fluent), English (intermediate)