

Youness Elalouani

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EDUCATION

Hassan II University of Science

Bachelor's Degree in Electronics

Casablanca - Morocco

2014 - 2017

- **Concentrations** : Applied Mathematics, Physics, and Embedded Systems
- **Related Coursework** : Mathematical Tools for Physics and Chemistry, Numerical methods engineering problems solution, Embedded systems development using Arduino, Scientific algorithms and programming for mathematical problem solving.

ALX Software Engineering Program

Certificate of completion with a specialization in backend

Casablanca - Morocco

2023 - 2024

- **Concentrations** : Backend Development, Systems Engineering and DevOps
- **Related Coursework** : Data Structures and Algorithms, Memory and File Management, Systems and Linux, Web Development, Databases, Networking and Security

EXPERIENCE

Ministry of Education

Mathematics Teacher

Casablanca - Morocco

2019 – Present

- Taught mathematics to students of various levels
- Created interactive course materials using LaTeX and GeoGebra

MechFlow (Desktop Application)

Founder and Developer

Casablanca - Morocco

2024 - Present

- Founded and developed MechFlow, a desktop application to help mechanics and garage owners manage their business more efficiently.
- Solved the problem of using paper and Word documents for quotes and invoices by allowing users to generate and track them digitally.
- Developed a dashboard to give users a clear overview of their business, including quotes, invoices, and financial data.

PROJECTS

Movie Alert

Fullstack developer

Casablanca - Morocco

2024

- Developed a movie content warning system where users can search for movies and see content warnings
- Integrated Google authentication (OAuth) and Redis caching for better performance
- Implemented secure file uploads using AWS S3

yallaJob

Backend Developer

Casablanca - Morocco

2024

- Worked on the backend of YallaJob, a mobile-first platform connecting freelancers and clients.
- Developed secure user authentication, job posting management, and a review system.
- Used Firebase to store images and Bull Queue for handling background tasks like image uploads.

CERTIFICATIONS

React - The Complete Guide 2025 (incl. Next.js, Redux)

Udemy - 2025

- Learn React from the ground up and finish the course as an advanced React developer
- Manage complex state efficiently with React's Context API and React Redux
- Build standalone React apps and applications connected to a backend via HTTP
- Implement user authentication in React apps

NodeJS - The Complete Guide (MVC, REST APIs, GraphQL, Deno)

Udemy - 2024

- Build modern, fast and scalable server-side web applications with NodeJS, databases like SQL or MongoDB.
- Understand the NodeJS ecosystem and build server-side rendered apps, REST APIs and GraphQL APIs

SKILLS

Programming : TypeScript, Python, C, HTML/CSS, React, NodeJS, NextJs, Electron, SQL, MongoDB, LaTeX

Tools and Technologies : Git, Docker, Firebase, Redis, AWS S3, WebSockets, Sanity, Tailwind CSS

Languages : English, French, Arabic

Interest : Football, Body-building