

Mohammed Shousha

Software Engineer

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[mohammed-m-shousha](#)



[Mohammed-Shousha](#)



[Portfolio](#)

Skills

Programming Languages

- JavaScript
- TypeScript
- Python
- Dart

Frontend & Mobile

- HTML5
- CSS3
- React
- React Native
- Flutter

Backend

- Node.js
- GraphQL
- Express.js
- NestJS
- FastAPI

Databases

- PostgreSQL
- MongoDB

Experience

Software Engineer Intern

alx africa - Internship

02/2023 - Present

- Acquired valuable technical and teamwork skills applicable to future software engineering roles.
- Engaged in peer learning sessions, received support from technical mentors, and actively contributed to community forums.

Web Development Intern

The Sparks Foundation - Internship

02/2023 - 03/2023

- Developed a basic banking system for facilitating customer money transfers and providing comprehensive transaction history.
- Incorporated a variety of modern technologies such as React, Typescript, Node.js, Express, and MongoDB.
- Designed and implemented a responsive user interface to enhance usability.

Education

Mechatronics Engineering

Mansoura University

09/2018 - 07/2023

- GPA: 3.97 (Top 1% of the class).
- Led projects including a waste sorting line (Arduino programming), a smart shopping cart (computer vision and website development), and a sumo robot (sensor integration and code writing).
- Participated in a mobile app competition, using React Native to secure 4th place.
- Managed the entire software part of the graduation project, utilizing a variety of technologies including Raspberry Pi, Flutter, GraphQL, and FastAPI.

Projects

Online Store

[Frontend](#) [Backend](#)

- Created a full-stack online store website for a seamless shopping experience.
 - Implemented MERN stack (MongoDB, Express, React, and Node.js) for robust development.
 - Crafted a user-friendly, responsive interface with Arabic language support.
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Recipes App

[Frontend](#) [Backend](#)

- Developed a user-friendly recipes app, providing a wide range of delicious recipes for user selection.
 - Created the app utilizing React Native (Expo), Express, GraphQL, and PostgreSQL.
 - Implemented features to add custom recipes with images and enabled advanced recipe search by ingredients, diet, calories, and time.
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SAP (Smart Automated Pharmacy) [Graduation Project]

[Project Repo](#)

- Developed a user-friendly Flutter application that enables patients, doctors, and administrators to interact with the system effortlessly.
 - Created an Apollo GraphQL server to power the SAP Mobile App, providing functionalities such as user management, medicine management, prescription management, and secure payment processing.
 - Built a tablet application using Flutter that allows users to seamlessly interact with a machine controlled by a Raspberry Pi, enabling them to receive prescriptions and order over-the-counter medicines.
 - Implemented a FastAPI server to control the Smart Automated Pharmacy, offering a RESTful API for managing medicines, and prescriptions, and performing various SAP-related actions.
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Smart Shopping Cart

[Project Repo](#)

- Developed a full-stack website as a user interface for a smart shopping cart utilizing computer vision.
 - Created the project using React, FastAPI, and Docker for efficient implementation.
 - Designed a simple and user-friendly UI with real-time updates through a WebSocket connection.
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BrainUp App

[Project Repo](#)

- Developed BrainUp App, an educational app that simplifies teaching for educators and enhances student learning.
 - Built a cross-platform mobile application using React Native and Expo, employing TypeScript and adhering to clean architecture principles for robust and maintainable code.
 - Ensured app reliability by comprehensive testing using Jest and React Native Testing Library (RNTL), covering all aspects of the application to guarantee a seamless user experience.
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Portfolio

[Project Repo](#)

- Incorporated responsive design, dark mode, smooth scrolling, and animated navigation.
 - Developed using Next.js, TypeScript, Tailwind CSS, and Framer Motion for optimal performance.
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Basic Banking System

[Project Repo](#)

- Designed and developed a full-stack basic banking website as a hands-on project at The Sparks Foundation.
- Utilized React, TypeScript, Express, Node.js, and MongoDB for the creation of the project.
- Implemented functionality for transferring money between customers and viewing transaction history.