

# Mostafa Mahomoud Hosny


## MERN Stack

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### PROFILE

Passionate about MERN stack development and continuously expanding knowledge. Currently pursuing studies in grade 3. Proficient in creating full-stack web applications using MongoDB, Express.js, React, and Node.js. Expertise in front-end and back-end development. Solid foundation in JavaScript and responsive design. Committed to staying up-to-date with latest technological advancements. Actively enhances problem-solving skills and technical proficiency through new projects. Thrives in collaborative environments. Eager to contribute to innovative development teams

### PROFESSIONAL EXPERIENCE

2024/04 – 2024/10 Giza, Egypt	<b>Mern Stack</b> <i>React Frontend Web Developer</i>  <ul style="list-style-type: none"><li>Developed and maintained responsive web applications using React.js, optimizing user interfaces with best practices for performance and scalability.</li><li>Implemented front-end architecture with HTML5, CSS3, and JavaScript, delivering responsive designs compatible with modern browsers and devices.</li><li>Integrated backend services with RESTful APIs developed in Node.js and Express, ensuring seamless communication between client and server-side logic.</li><li>Utilized version control systems like Git and GitHub for collaborative development, managing code changes effectively in multi-developer environments.</li></ul>
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### PROJECTS

2024/09	<b>E-commerce Platform Using MERN Stack</b>  <i>A Secure, Role-Based Full-Stack Application with Product Management, Filtering, User Authentication, and State Management using Context API</i> <b>Project Overview:</b> Developed a full-featured e-commerce platform with user authentication, role-based access control, and comprehensive product management. Integrated various functionalities such as product filtering, wishlist, cart, and review system. <b>Key Technologies:</b> <ul style="list-style-type: none"><li><b>Frontend:</b> React, Bootstrap, CSS, Context API</li><li><b>Backend:</b> Node.js, Express.js, MongoDB</li><li><b>Authentication &amp; Security:</b> JWT, bcrypt</li><li><b>File Handling &amp; Validation:</b> Multer, Joi</li></ul> <b>Responsibilities:</b> <ul style="list-style-type: none"><li>Designed and implemented a <b>role-based authentication system</b> using <b>JWT</b> and <b>bcrypt</b> with protected routes for different user roles (user, admin, adminserver).</li><li>Managed global state using <b>Context API</b> to handle authentication, wishlist, cart, and product data without prop drilling.</li><li>Built <b>CRUD operations</b> for product, category, subcategory, and user data.</li><li>Implemented product filtering by category, subcategory, price, and rating, enhancing the user experience.</li><li>Developed and integrated the <b>wishlist</b> and <b>cart</b> features, allowing users to manage their purchases efficiently.</li><li>Used <b>Multer</b> for handling image uploads for products and user profiles.</li><li>Applied <b>Joi</b> for robust input validation, ensuring data integrity across all forms and API endpoints.</li></ul>
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- Created a **responsive frontend** using React and Bootstrap, ensuring a smooth user experience across devices.
- Developed an **admin dashboard** to allow administrators to manage users, products, and orders.

2024/07

### Movie Website

*A Dynamic Film Discovery Platform*

**Technologies Used:** React, API Integration, Bootstrap, JavaScript, CSS, Authentication

**Description:** Developed a responsive movie website that integrates with an external movie API to display dynamic film data. Implemented user authentication with signup and login functionality, alongside a user-friendly navigation bar.

#### Key Features:

- **API Integration:** Fetched and displayed real-time movie data from an external API.
- **React Hooks:** Utilized useState, useContext, and useCallback for efficient state management and performance optimization.
- **User Authentication:** Implemented validation for both signup and login forms to ensure proper data handling and security.
- **Search Functionality:** Integrated a search bar to filter movies based on user input.
- **Movie Details Page:** Displayed detailed information for each movie, including synopsis, rating, and cast.
- **Responsive Navbar:** Created a navigation bar for easy access to different sections (Home, Search, Login/Signup).
- **Bootstrap Styling:** Applied Bootstrap for a responsive layout and visually appealing design.

2024/10 – present

### Package Tour Website

*A Full-Stack MERN Application for Managing and Booking Tour Packages*

- **Technologies:** MERN Stack (MongoDB, Express.js, React, Node.js) Developing a full-stack application for managing and booking tour packages. The system includes user authentication, wishlist management, and shopping cart functionality.
- **Key Features:** User registration/login, add-to-wishlist and shopping cart features, and dynamic display of tour packages.
- **Future Enhancements:** Payment gateway integration, reviews/ratings system, and admin dashboard for managing packages and users

2024/08

### Authentication Website

*A Secure Full-Stack Authentication System with Role-Based Access, Token Validation, and User Image Management*

- **Technologies:** React, Express.js, MongoDB, JWT, Joi, bcrypt, Multer, Bootstrap, CSS  
Developed a secure full-stack authentication system with role-based access control and token validation. Users can sign up, log in, and manage profiles, including uploading profile images via Multer. The system includes three roles (user, admin, adminserver) with specific permissions, such as account management for the adminserver role.
- **Backend:** Implemented user schema, role-based access, JWT-based token validation, and secure image uploads using Multer.
- **Frontend:** Created responsive signup/login forms, protected routes, and role-based interface using React and Bootstrap.
- **Key Features:** Role management, session management with JWT, user profile updates, and responsive design using Bootstrap.


## EDUCATION

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2022/09 – present

Giza, Egypt

### Bachelor of Computer Science and Artificial Intelligence

*Cairo University for Computer Science and Artificial Intelligence* 

GPA: 3.35/4 [Very Good]

## TECHNICAL SKILLS

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### Programming Languages

c++ , Java , Python

### React js

Hooks , Props , Components , Context API , Axios ,  
StateManagement (Redux) , Routing (React Router)

### Node js

### Express js

### Intro of Next js

### Data Structure

### Git/Github

### Introduction to Front-End Development

Html , Css , Javascript

### Bootstrap

### Json Server

### Mongoo DB

### Redux

Redux , Toolkit

### Algorithms

### SQL Server

## COURSES & CERTIFICATES

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Introduction to Front-End Development ( Coursera ) [↗](#)

## LANGUAGES

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### Arabic

Native

### English

Intermediate