

Mohamed Hamdy *Front-End Developer*

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🔗 My Portfolio

👤 Summary

Dynamic and ambitious computer science graduate passionate about Front-End development. Achieved academic excellence with a strong GPA (3.53). Demonstrated leadership as a teamleader with excellent communication skills. Engaged in volunteering experiences, showcasing commitment to community involvement. Seeking to apply technical expertise and leadership abilities to drive innovation and success in a challenging role.

🎓 Education

2018 – 2022

Cairo, Egypt

Bachelor of Computer Science

Computers and AI, Helwan University

- Cumulative Grade: Excellent. (GPA: 3.53 /4.0)
- Graduation Project: COVID-19 Detection
 - How to detect COVID from (X-ray and CT scans) Using deep learning algorithms. and create a website to help patients take care of their health. my role In the project was the front end of all the website and Machine Learning Models.
- Project Grade: Excellent (A+)

💼 Experience

07/2025 – present

Cairo, Egypt

AI & Coding Instructor

ISchool

- Teach students (ages 7–16) the fundamentals of programming, problem-solving, and AI concepts.
- Develop and deliver interactive lessons on **Python, Scratch, and AI basics**, simplifying complex concepts for young learners.
- Guided students through building small projects, encouraging creativity and critical thinking.

08/2022 – 10/2022

Cairo, Egypt

Oracle Java Programming Internship

Next Academy

- Completed full-stack development training with **Java, Oracle DB, HTML, and CSS**.
- Gained practical experience in **database design, server-side logic, and frontend integration**.
- Collaborated with peers to solve programming challenges and improve teamwork skills.

🧠 Technical Skills

Front-End Tech

React.js, Next.js, TypeScript, TailwindCSS, HTML, CSS, JavaScript, React-Router, Redux/toolkit, MUI, FramerMotion

Concepts

OOP Analysis and Design, Algorithms and Data Structures, SOLID Principles.

Back-End Tech

.Net, MVC, WebAPI, Microsoft SQL Server, MySQL, Oracle DB

Programming languages

JavaScript, C, C++, Java, C#, Python, PHP

Projects

The School Dashboard

A Next.js application designed for schools to manage students, teachers, parents, and staff. The system features role-based access, real-time statistics, and event management, offering a complete solution for school administration. Built with a focus on responsive UI and modern form validation.

- **Role-Based Access** – Separate dashboards for Admin, Teacher, Student, and Parent.
- **Real-Time Statistics** – Overview of students, teachers, parents, and staff with dynamic updates.
- **Calendar & Events Management** – Display upcoming events and announcements.
- **Form Handling & Validation** – Implemented using React Hook Form and Zod.
- **Responsive Design** – Tailored for all devices using TailwindCSS.
- **Context Management** – Centralized state with React Context API.
- **Routing & Navigation** – Built with Next.js App Router for a smooth user experience.

Using Next.js, TypeScript, TailwindCSS, React Hook Form, Zod

Amazon clone

A fully responsive e-commerce application modeled after Amazon, offering product browsing, category filtering, and secure user authentication. Users and cart data are managed via global state using Redux Toolkit.

- **Dynamic Routing** for category-specific product filtering
- **Firebase Authentication** with user state tracking
- **Global Cart & User State** via Redux Toolkit
- **Lazy-loaded Images** for performance optimization

Using React, Redux Toolkit, Firebase Auth, React Router, TypeScript

MCDB:

Movie browsing platform allows users to explore trending movies and view detailed information (ratings, release dates, overviews)

- Fetches real-time movie data via TMDb API
- Responsive design
- Efficient state management with React hooks

Using React, framer-motion, TMDb API, React Router

OCE

Online code editor that enables users to write, edit, and execute HTML, CSS, and JavaScript in real-time. The application provides a seamless coding experience with auto-completion, syntax highlighting, and local storage support, making it a great tool for practicing and testing frontend development.

- **Live Code Preview** – Automatically updates output as the user types.
- **HTML, CSS, JavaScript Support** – Write and test frontend code in one place.
- **Local Storage Persistence** – Saves code between sessions.
- **Auto-Completion & Syntax Highlighting** – Powered by **CodeMirror**.
- **Collapsible Code Editors** – Expand or collapse individual editors for a better experience.
- **Reset Functionality** – Clear stored code and start fresh with a single click.

Using React, Material UI, CodeMirror

MUI DashBoard:

Admin dashboard designed for data visualization and management. The dashboard includes interactive charts, a data grid, a calendar, and a sidebar navigation menu, providing a clean and modern UI for efficient data tracking.

- **Dynamic Data Grid** for structured data representation
- **Interactive Charts** using Nivo for visual analytics
- **Sidebar Navigation** for seamless user experience
- **FullCalendar Integration** for scheduling and event tracking

Using React, Material UI, Nivo Charts, FullCalendar, React Router

TheShop:

Responsive E-commerce platform, featuring product listings, cart management, and a seamless shopping experience. The application focuses on user-friendly navigation, real-time product updates, and dynamic UI interactions.

- **Product Display** with clean UI and detailed information
- **Cart Functionality** – Add, remove, and manage items dynamically

- **Responsive Design** for a mobile-friendly experience
- **State Management** with React hooks for smooth interactions

Using React, React Router, fakestoreAPI

coffee Shop:

Responsive coffee shop website providing a smooth and engaging user experience. The application features a visually appealing layout, a dynamic menu display, and a user-friendly interface.

- **Attractive UI & Responsive Design**
- **Dynamic Menu Section** showcasing coffee selections
- **Optimized Performance** for a fast and seamless experience

Using React and CSS

Assembly:

End Game

Responsive and dynamic word guessing game designed to provide an engaging user experience with interactive UI elements and structured data presentation.

- **Modern UI & Responsive Design**
- **Dynamic Data Handling** with React state management

Using React and CSS

CV Application

Responsive web application enabling users to create, customize, and download professional resumes. The application offers an intuitive interface for inputting personal and professional information, dynamically generating a formatted CV.

- **User-Friendly Form:** Collects essential details such as personal information, education, experience, and skills.
- **Real-Time Preview:** Displays a live preview of the CV as users input their data, ensuring accuracy and satisfaction.
- **PDF Export:** Allows users to download their completed CVs in PDF format for easy sharing and printing.
- **Responsive Design:** Ensures optimal viewing and interaction across various devices, including desktops, tablets, and smartphones.

Using React and CSS

Ben 10:

Interactive memory card game where players must click on unique cards without repeating selections. This project enhances state management, event handling, and UI interactivity

- **Dynamic Card Shuffling** – Cards shuffle after every selection to increase difficulty
- **Score Tracking** – Keeps track of current and best scores to encourage replayability
- **React State Management** – Uses useState and useEffect for game logic
- **Engaging UI** – Styled with CSS for a visually appealing experience
- **Responsive Design** – Ensures smooth gameplay across different screen sizes

Using React and CSS

Odin Dashboard:

Dashboard utilizing HTML and CSS, focusing on implementing CSS Grid for complex layouts. This project was inspired by The Odin Project's curriculum, aiming to enhance proficiency in modern CSS techniques.

- **Structured Layout:** Implemented a multi-section dashboard, including navigation menus, user profiles, project overviews, announcements, and trending sections.
- **Responsive Design:** Ensured compatibility across various devices, providing an optimal user experience on desktops, tablets, and mobile devices.
- **CSS Grid Implementation:** Leveraged CSS Grid to create flexible and efficient layouts, simplifying the arrangement of complex components.

Using HTML, and CSS