



# Donia Mahmoud

Frontend Developer

## Contact Information:

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## About me

Frontend Developer with 2+ years of experience building responsive web applications using HTML, CSS, JavaScript, and React. Focused on crafting intuitive user interfaces and staying up-to-date with modern frontend technologies and best practices. Continuously learning and adapting to new technologies and best practices in frontend development to stay ahead in the rapidly evolving industry.

## Skills:

### Languages & Core Technologies:

- JavaScript (ES6+), TypeScript, HTML, CSS,, C/C++, Java

### Frameworks & Libraries:

- React.js, Next.js, Redux, React Hooks, jQuery, Styled-Components, Material UI (MUI)

### Tools & Platforms:

- Git, GitHub, Node.js, npm, Yarn, RESTful APIs

### Testing & Quality Assurance:

- Jest, Jasmine, React Testing Library

## Work Experience:

### Frontend Developer at Valeo | Dec 2022 – Present:

- **Developed and launched a responsive, server-side rendered (SSR) web application using React and Next.js for Valeo's Starter & Alternator Repair Parts Finder:**
  - Designed for mechanics and workshop technicians to easily search and identify compatible repair parts.
  - Implemented SSR to enhance SEO and ensure fast initial page loads.
  - Included a region-based country selector and optimized UI for all screen sizes.
    - Publicly deployed at [valeostarteralternator.com](https://valeostarteralternator.com).
- **Built a responsive micro-frontend application using Next.js (both host and remote) in a highly modular setup:**
  - Tackled the challenge of implementing Webpack Module Federation with Next.js, which lacks native support, requiring advanced workarounds to resolve issues like hydration mismatches, shared routing, and i18n context conflicts.
  - Developed the remote app independently, integrating it later into the host Next.js app managed by another team.
  - Implemented key features such as:
    - Recent search history using localStorage
    - Multi-type search with filtering, auto-complete with debouncing, and paginated results
  - Designed shared translation and routing instances to be injected from the host, ensuring consistency across the entire micro-frontend ecosystem.





- Developed a custom search and filter plugin integrated as a popup into the Magnolia CMS Backoffice, enabling efficient image discovery from the Keepeed API:
  - Added infinite scrolling, dynamic filters, and seamless UX for large datasets.
  - The plugin is now reused across several internal projects.
- Contributed to the maintenance and feature development of two large-scale enterprise web applications, enhancing performance, accessibility, and code quality within an agile team.
- Built a server-side PDF generation tool using playwright-core to automatically convert dynamic documents into styled, print-ready PDFs.
- Collaborated with UI/UX designers, backend engineers, and QA to ship high-quality, production-ready features with a strong focus on responsiveness and accessibility.
- Led and participated in technical design meetings, collaborating with cross-functional teams to define and agree on API contracts, data structures, and integration strategies.

**Technologies:** Next.js, React.js, MUI v5, Jest, Husky

### **Frontend Developer Freelancer | Nov 2021 – Dec 2022:**

- Designed and developed a fully responsive website for Slimnastics Fitness Centre, including custom animations and smooth page transitions.
- Focused on clean component architecture, accessibility, and brand-aligned design implementation.

**Technologies:** React.js, Styled-Components, Framer Motion

### **Frontend Developer Intern | Oct 2021 – Nov 2021:**

- Gained hands-on experience with frontend development tools and practices.
- Assisted in building UI components and debugging layout issues.

## **Education:**

**Bachelor of Software Engineering**  
Faculty of Computers and AI  
Cairo University  
2017 – 2021 | GPA: 3.1

**Graduation Project:**  
Sign Language Detection Application  
**Grade:** A+





## Projects:

### Weather Forecast App

**Github Repo:** [github.com/DoniaMahmoud/weatherForecast\\_Task](https://github.com/DoniaMahmoud/weatherForecast_Task)

- Built a location-aware weather app that detects the user's location and displays current weather details including temperature, humidity, and more.
- Designed a landing page featuring:
  - A 10-day forecast table with max/min temperatures
  - A section listing other cities within the user's country for quick access
- Developed a detailed city page with interactive D3.js visualizations, including:
  - Monthly max/min temperature statistics displayed as line/bar charts
  - Pie charts illustrating monthly rainfall distribution
  - A filterable table allowing users to explore weather data by month or year
- Focused on usability, responsiveness, and data clarity to help users easily understand weather trends.

**Technologies:** React.js, D3.js, Styled-Components, RESTful APIs, Framer-Motion

### Apartments Listing App

**Github Repo:** <https://github.com/DoniaMahmoud/apartments-app>

- Developed a responsive frontend application using Next.js to showcase apartment listings with a clean and user-friendly UI.
- Implemented core pages:
  - **Listing Page:** Displays available apartments with essential info.
  - **Details Page:** Shows detailed view of selected apartment with full description and layout.
  - **Add Apartment Form:** Allows users to submit new apartment listings through a structured, user-friendly form.
- Designed the app to be fully responsive for both mobile and desktop, with thoughtful UI/UX considerations to ensure a smooth browsing experience.
- Dockerized the application by creating a custom container, enabling consistent development and simplified deployment across environments.

**Technologies:** Next.js, React.js, Mui v5, Docker

### Webpack Nested Module Federation App

**Github Repo:** [github.com/DoniaMahmoud/webpack-nested-module-federation](https://github.com/DoniaMahmoud/webpack-nested-module-federation)

- Configured multiple remote apps and integrated them into a host shell while preserving routing, shared dependencies, and isolated deployments.
- Solved complex challenges around nested federation, hydration issues, and shared context across federated modules.
- Demonstrated use cases for scalable frontend architecture in enterprise environments with independently deployable modules.
- Developed an Express.js server to serve the applications

**Technologies:** Webpack 5, SASS, Express.js

## Languages:

- Arabic (native)
- English (advanced)

