

Mohammed T. Elgammal

Software Engineer | FrontEnd Developer

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As a seasoned Software Engineer, I bring over 2.5 years of extensive experience in Frontend and prior FullStack development roles to the table. Throughout my career journey, I've delved into diverse facets of the web development industry, collaborating with multidisciplinary teams to craft and uphold state-of-the-art solutions. This includes my involvement in the creation and maintenance of robust systems like the Large Military Human Resources System, where I tackled both backend and frontend tasks. Additionally, my focus on frontend development has led me to contribute to projects ranging from Crypto Exchange Platforms to captivating websites and landing pages.

PROFESSIONAL EXPERIENCE

Professional development

Jul 2023 – Mar 2024

Career Break

Kafrelsheikh, Egypt

- Studied Data Structures, Algorithms, C++, and Object-Oriented Programming (OOP), and completed LinkedIn assessments for validation.
- Studied Design Patterns to reinforce software design principles.
- Engaged in extensive problem-solving on platforms like LeetCode, tackling over 100 problems.
- Reinforced Frontend development skills by revisiting TypeScript, delving into both advanced JavaScript and React concepts.
- Strengthened backend development proficiency by comprehensively reviewing Node.js and Express.js.
- Developed two impactful portfolio projects: "VizSort," demonstrating sorting algorithms, and "GameAtlas," a MERN stack project with authentication and API consumption, showcasing full-stack development skills.

Frontend Developer

Nov 2022 – Mar 2024

JC Management

Dubai,

United Arab Emirates

- JCManagement is a software development company, focusing on the development of Crypto Exchange Platforms and Enterprises and clients portfolios.

- I Worked collaboratively with a team to create cutting-edge solutions, including Crypto exchange platforms, static websites, and landing pages, utilizing technologies such as React, Typescript, Vite, and CSS modules.
- I Offered valuable insights on responsive design and usability, depending on my previous experience as a graphic designer resulting in seamless user experiences across various devices and screen sizes.
- I Demonstrated a commitment to continuous learning, expanding expertise in modern technologies, and advocating for the integration of Next.js and Typescript and Testing to boost performance and scalability.
- I Played an instrumental role in optimizing user interfaces and elevating the overall user experience through impactful contributions.

Full Stack Developer

Ministry of Defense [↗](#)

Oct 2021 – Nov 2022

Alexandria, Egypt

- Developed a secure file management system using Python and Django with advanced security features to facilitate file uploads, storage, and sharing for users with different access levels.
- Collaborated with my team to create an intuitive dashboard that empowered administrators with complete control over the system.
- Implemented user management functionalities and fine-grained file permissions to ensure efficient system management.
- Streamlined user operations by providing a comprehensive control interface for administrators to manage users and their access to files.

PROJECTS

GAtlas [↗](#)

A Game Atlas website for Gamers

It's a Full Stack Web Application crafted to be your one-stop destination to search, explore, and filter through a vast selection of games by genre and platform.

- **Search** for games by name: The search bar uses debouncing to prevent unnecessary API calls and improve performance.
- **Infinite Scrolling**: View games in an infinite scrolling list. The list fetches more games as you scroll down.
- **Filtering**: Filter games by genre and platform. The filter uses query caching to prevent unnecessary API calls and improve performance.

- **Dark Mode:** Toggle between light and dark mode. The theme is persisted in local storage.
- **Authentication:** Register and login to access the games list. The authentication is handled by a Node.js server with MongoDB as the database and JWT for token-based authentication.
- **Responsive:** The app is responsive and works on all devices. It is built with ChakraUI, which provides a mobile-first design.
- **Speed:** The app is built with Vite, which provides fast build times and a great development experience.

Technologies:

Frontend: Vite - React - TypeScript - ChakraUI - React Query - React Hook Form - Axios

Backend: Node.js - TypeScript - Express - MongoDB - JSON Web Token

API: RAWG Video Games Database API [↗](#)

VizSort [↗](#)

A Sorting Algorithm Visualizer Website

It's a Frontend Web Application, it lets you to witness the functionality of prevalent sorting algorithms in real-time, gain valuable insights and enhance your understanding of these algorithms and observing their performance and time efficiency.

- **Visualize** most common sorting algorithms in action (Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort) in real-time.
- **Customize** the graph size and speed of the sorting process.
- **Calculate** how much time each algorithm takes to completely sort the graph.

Technologies:

React - TypeScript - Vite - Ant Design (UI Library)

SKILLS

C++ • Problem Solving • Object Oriented Programming • JavaScript • React • TypeScript • Node.js • HTML • CSS • Express.js • MongoDB • Git • Python • Django • PostgreSQL • Data Structures • Algorithms • Software Engineering • Bootstrap • npm • Design Patterns • Attention to detail • Unit Testing • Axios • C++ STL • Pixel-perfect Components • Cypress • Ant Design • ChakraUI

EDUCATION

Kafrelsheikh University [↗](#)
Bachelor of Science (B.Sc)

Sep 2015 – Jul 2020
 Kafrelsheikh, Egypt

REFERENCES

Biagio Nuzzo, *ICT Team Leader*, JManagement
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