MAHMOUD MOSTAFA

Computer and Systems Engineering Student

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Objective

Innovative Full-Stack Developer currently focused on .NET, with 20+ projects across front-end (React.js, Next.js) and back-end (Node.js, MongoDB, .NET). Skilled in teamwork, communication, and delivering high-quality, user-centric solutions.

Education

09/2021 - PRESENT

Computer and Systems Engineering - Faculty of Engineering Ain Shams University

Experience

Full Stack .Net Track Trainee – DEPI   *10/2024 – Present*
- Gained hands-on experience with C#, SQL (Microsoft SQL Server), HTML, CSS, JavaScript (including ES6+), Entity Framework, and the MVC architecture to deliver efficient and scalable applications.
- Successfully completed diverse tasks, including back-end logic implementation, database management, and front-end development, contributing to the overall success of multiple projects.
- Improved soft skills such as teamwork, communication, problem-solving, and time management by collaborating on group tasks and adhering to strict deadlines.

IT Member – APEC   *10/2024 - 4/2025*
- Developed a registration system with an integrated quiz feature, streamlining the application process and enabling over 1,700 students to register.
- Implemented seamless filtering and interview management features for HRs, greatly improving candidate review, selection, and scheduling during the enrollment phase.
- Upgraded the website's UI to ensure a consistent, modern, and user-friendly experience.

Web Development Team Member – STP   *9/2023 - 6/2024*
- Designed and implemented 5+ interactive forms, enhancing functionality and user experience for campus-related activities.
- Improved the UI of multiple web pages, ensuring consistency, accessibility, and a modern design approach.

Skills & Tools :

- **Programming Languages:** C++, Java, C#, JavaScript(ES6+), TypeScript, Node.js, Python, HTML5, CSS3
- **Backend Development**
    - **Backend Frameworks/Libraries:** Node.js, Express.js,.NET (ASP.NET Core)
    - **Databases:** MongoDB, MSSQL, Supabase, Entity Framework Core
    - **API Development:** RESTful APIs, Authentication & Authorization (JWT, OAuth)
- **Frontend Development:**
    - **Frameworks/Libraries:** React.js, Next.js, Redux Toolkit, React Query, Context API
    - **State Management**: Redux, Context API, React Query
    - **CSS Frameworks & Styling:** Tailwind CSS, SCSS/SASS, Styled Components, CSS Modules
- **Design & Prototyping:**
    - **Tools:** Figma, Adobe XD, Photoshop, Illustrator

Projects

Trippi
- **Tours Reservations – Full-Stack Web App**
- **Features**: Tour listings with advanced filtering, booking system, authentication (JWT), profile management, Stripe payments, admin controls, reviews, and analytics for top tours.
- **Tools**: Node.js, Express.js, Pug

E-shop
- **E commerce Full stack Web app**
- **Features**: Product Listings , Shopping Cart and wishlist , Authentication , Profile Management , Data Validation , Responsive Desig , Optimization and State Management
- **Tools**: React.js, Supabase, Redux toolkit, React Query , tailwind css, Material UI S, Chakra UI

Wild-oasis (client side)
- **Full stack Web app for reservations of hotel cabins and bookings**
- **Features**: add reservation, delete, edit, authentication, authorization, image optimization
- **Tools**: Next.js, App Router, Auth js , Supabase, Context API, tailwind css

Wild-oasis(Management side)
- **Full stack Web app for management of hotel cabins and bookings**
- **Features**: add cabins, delete, edit, sorting, pagination, authentication, authorization,advanced patterns
- **Tools**: React.js, React Query, Supabase, Context API, Styled Components

CPU Scheduler simulator
- **using C++ with a Qt-based GUI, designed to simulate and visualize various CPU scheduling algorithms. The application supports all major schedulers (FCFS, SJF, Priority, Round Robin, etc.) with an option for live simulation, allowing real-time process handling, dynamic additions, and visual Gantt chart updates**

XML Editor
- **Developed by C++ and QT framework and is designed to process XML files as an input to check the validity of Data, convert it to JSON files and to analyze the Data.**

Fast-React-Pizza
- **Web app for buying pizzas**
- **Features**: add to cart, delete, edit, authorization
- **Tools**: React.js, Redux Toolkit (Thunks), Tailwind CSS

World-wise
- **Web app for saving and adding notes for visited places on map**
- **Features**: add to map, delete, edit, authorization
- **Tools**: React.js, Leaflet library, Context API, CSS Modules

COURSES & CERTIFICATIONS

- **Robotics Workshop using Arduino- Beta Engineering Training Academy (9/2022)**

- **Machine Learning Introduction for Everyone- Coursera (3/2023)**

- **Object Oriented Programming in Java- Coursera (7/2023)**

- **The Complete JavaScript Course 2023: From Zero to Expert- Udemy (7/2023)**

- **Advanced CSS and Sass : Flexbox ,Grid , Animation- Udemy (9/2023)**

- **The Ultimate React Course 2024: React, Next JS, Redux and More- Udemy (7/2024)**

- **Node.js, Express, MongoDB & More: The Complete Bootcamp (9/2024)**