

ABDULLAH ELROUBY

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Education

BHI-47

Sep. 2021 – Present

Bachelor of Computer Engineering

Bihera, Egypt

Last semester GPA : 3.14

Relevant Coursework

- Data Structures
- Discrete mathematics
- Intro in Microprocessor
- communication system
- OOP
- Database Management
- Assembly
- Algorithms Analysis
- Computer Architecture
- System programming

Experience

Baghdouda Solutions (Startup)

Dec 2024 – Present

Part-time Frontend Developer (React.js)

Alexandria, Egypt

- **E-Learning Platform (Nour Al-Eman):** Developed a role-based e-learning platform using React, supporting Students, Teachers, and Admins.
- Integrated RESTful APIs using TanStack Query, leveraging queryKey caching and background refetches to reduce redundant network requests by 50–100% on repeat visits.
- Ensured responsive, reusable, and high-performance UI/UX across all devices.
- Revamped Home.js by rethinking data fetching (swapping useEffect for TanStack Query) and coupling useQuery with useMemo, resulting in a 50–100% boost in Time to Interactive (TTI) and a 50% reduction in re-renders.
- Enhanced overall UI/UX with custom Loading and Error screens, streamlined code logic for better maintainability, and achieved an overall performance improvement of 50–75%.

GDSC BHI-47

Sep 2023 – Nov 2024

PR Core Team Member

Alexandria, Egypt

- Collected data and negotiated deals with service providers (catering, gift shops) for IWD'24 Alexandria event.
- Secured sponsorships and partnerships for college tech events.

Rouby Company for Civil Engineering

July 2020 – Jan 2024

Assistant Civil Engineer

Wadi Alnatroun, Egypt

Adaptation & Efficiency: Automated workflows using GPS/Topcon Hiper VR, reducing data processing time from 6hr to 30min.

Problem Solving: Developed custom solutions for desert projects, reducing site visits by 40%.

Client Relations: Maintained 100% client satisfaction through clear technical communication & timely delivery.

Innovation: Implemented CAD scripting solutions that became company-wide standard.

Projects

Rouby | React, FireBase EmailJS, CSS, Bootstrap

September 2024

- Developed a custom web portfolio from scratch showcasing key projects and professional skills using React.js.
- Implemented an interactive "My Projects" section that dynamically displays project details and technologies used.
- Integrated EmailJS to facilitate direct communication through a functional contact form within the "Contact Me" section
- Employed advanced HTML, CSS, and JavaScript to ensure a responsive and accessible user experience across multiple devices.
- Used Firebase Database to store my projects information.

Weather App | React, WeatherAPI.com, Geolocation Developer API, Bootstrap

September 2024

- Engineered a dynamic weather application using React.
- Fetched weather data based on user's location using the Geolocation Developer API.
- Displayed real-time and forecast data including wind speed, humidity, and temperatures.
- Provided hourly weather updates for the current day and max/min temperatures for two days ahead.
- Allowed user searches by country, city, zip code, or state.

Recipe Search Website | *HTML, CSS, JavaScript, Bootstrap, Forkify API*

September 2024

- Developed a recipe search platform that fetches data from the Forkify API.
- Implemented dynamic recipe recommendations based on user selections.
- Optimized performance by storing API responses in sessionStorage to reduce redundant requests.
- Designed a user-friendly interface that allows users to search and browse recipes across various categories.

sign-up / log-in | *HTML, CSS, JavaScript, Bootstrap*

August 2024

- Developed a secure login and signup system with form validation to ensure user input accuracy.
- Created error handling for password resets, verifying user identity for forgotten passwords.
- Designed the UI to guide users through account creation and login with clear, helpful error messages.
- Implemented secure transmission of user data to the backend for processing and storage.

Product Management System | *JavaScript, HTML, CSS, Bootstrap*

August 2024

- Developed a product management system with CRUD operations using browser localStorage.
- Implemented form validation with regex for enhanced input accuracy.
- Added sorting functionality to dynamically organize products by various fields.
- Designed an intuitive UI with error handling for a smooth user experience.
- Check it out here : <https://abdullahelrouby750.github.io/product-mangment-system-demo/>

Hospital System | *C#, .NET, LINQ, EPPlus*

june 2024

- Developed a comprehensive system for managing patient and employee data, including visits, medications, and supply requests.
- Designed and implemented core classes, and created unit tests to ensure functionality.
- Integrated Excel as a temporary database using EPPlus for data storage and retrieval.
- Utilized LINQ for efficient data manipulation and querying.
- Future plans include converting to a WPF application and migrating to a more robust database system.

World prayer | *dart, flutter, Android Studio*

April 2024

- Designed a sample prayer app that finds current location, shows local time and Islamic prayer times (today or any date).
- Uses location for Qibla direction. Lets you search prayer times for any place by name (uses REST Countries and MuslimeSalat APIs).

Expression execution | *c++, Microsoft visual studio*

December 2023

- Developed a program that takes any mathematical function in 'x' -f(x)- with the wanted value of 'x'.
- Did not use any external libraries and only used a stack data structure.
- Re-coded it using tree algorithm and maintained the code for a faster and safer usage.

Technical Skills

Languages: HTML/CSS, JavaScript, Typescript, WordPress, Liquid, c++, c#, Dart, Python, SQL Server, MYSQL
Developer Tools: Microsoft Visual Studio, VS Code, Figma, Google Cloud Platform, Android Studio, SSMS, Firebase database
Technologies/Frameworks: Bootstrap, Tailwind, ReactJS, NextJs, .NET, Flutter, GitHub, Git, EPPlus, Microsoft Office

Soft Skills

- problem solving.
- Teamwork and collaboration.
- Adaptability and Flexibility.
- Time Management.
- Work Ethic.