USAMA ASGHAR

Software Engineer

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Education

University of South Asia — Lahore
Bachelor of Science in Computer Science (BSCS) | CGPA: **2.98** / 4.0 — 2020 - 2024

Govt M.A.O. Graduate College — Lahore
Intermediate — 2018 - 2020

Sacred Heart Cathedral High School — Lahore
Matriculation — 08/2018

Skills

C++ · Java · Javascript · React · Redux · NodeJs · ExpressJs · WebSockets · JWT · RESTful API · Git · Github · VS Code · Databases · DBMS · SQL · MongoDB · Bootstrap · Tailwind Css · Html · Css · Data Structures · Algorithms · Object Oriented Programming

PROJECTS

Zelfi Crypto Application

https://zelfiii.netlify.app/

React, Tailwind Css

- Integrated the **CoinGecko API** to display real-time data for various cryptocurrencies.
- Showcased price changes of Coins over **1 hour, 24 hours**, and **7 days**, along with total **market capitalization** and **total volume**.
- Implemented **pagination** to enhance user experience when browsing crypto listings.
- Added a **search functionality** for quick filtering and access to specific cryptocurrencies.
- Utilized the **Context API** for efficient state management across the application.
- Designed a responsive and visually appealing user interface using **Tailwind CSS**.
- Demonstrated skills in API integration, front-end development, and data handling in real-time applications.

Final Year Projects

Tutor Finder Application

Node JS, Express JS, MongoDB, Bootstrap

- We developed a comprehensive Tutor Finder Application as our Final Year Project, which facilitates seamless registration and profile management for both students and teachers. Key features include dynamic profile editing and advanced search capabilities, allowing students to filter tutors by location, subjects, and username. Real-time chat functionality enables instant communication between users for discussing requirements and scheduling lectures.
- Users can negotiate lecture frequency, pricing, and mode of delivery (online or physical). For physical classes, location details are shared within the chat interface, while online sessions are hosted seamlessly. An integrated payment gateway ensures secure transactions between students and tutors.
- The admin panel allows administrators to monitor all chats, review tutor applications upon sign-up, and accept or reject them based on the Information provided. Additionally, admins can activate or deactivate user account, ensuring better management and control over the platform's user base.
- We utilized Bootstrap for frontend development, and Node.js with Express.js for backend functionalities, employing MongoDB for efficient data storage. JWT was implemented for robust authentication and authorization mechanisms, while WebSockets were leveraged to enable real-time chat functionality.

File-Sharing App

MERN Stack

- Developed a MERN stack file-sharing app where users can securely upload files, stored on the server with unique shareable links
- Implemented a responsive React.js front-end for an intuitive user interface and utilized MongoDB for efficient data management
- Enabled other users to download files using the generated links, showcasing practical full-stack development skills and emphasizing user-centric design

PROJECTS

Notes App

MERN Stack

- I developed a notes app using the MERN stack, incorporating user authentication mechanisms such as login and signup with JWT. The app allows users to create, read, update, and delete (CRUD) their notes, which are securely stored in a MongoDB database. Users must log in to view or manage their notes, and new users need to sign up and log in to access the app's features.

Fake Store

https://fakestore-123.netlify.app/

React

- Designed and implemented an e-commerce web application using modern front-end technologies to provide users with seamless online shopping experience. The project utilized React.js, Redux Toolkit, React Hooks, and React Router for state management, user interface development, and routing.
- Dynamically fetched product data from the Fakestore API and displayed it to users in an organized manner.
- Implemented a category filtering feature to allow users to browse products by categories, enhancing the user experience. Users can add products to their shopping cart, view the contents of the cart, and remove items from the cart as needed. Utilized Redux Toolkit for efficient state management, ensuring data consistency and scalability. Utilized the Fakestore API to retrieve real product data, providing users with a realistic shopping experience.

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Github
https://github.com/usamaasgharr

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