

Muhammad Umar

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Profile

A highly-skilled computer scientist and **MERN stack developer**, with expertise in leadership, mathematics, programming logic, and cross-platform coding.

I am seeking to bring my development skills, creativity and collaborative mindset to an organization as a computer scientist to drive innovation and success using the powerful **MERN stack**.

Personal Projects

MRI DIAGNOSIS SYSTEM (FINAL YEAR PROJECT) (06/2021 – 06/2022)

- A full-stack web and mobile application designed for the **diagnostic analysis** of lumbar spine **MRI scans**. The **front-end** was developed utilizing **React** and the **back-end** utilizing **NodeJS**, **MongoDB**, and **Express**. The **diagnostic server** was constructed using **Flask** and **machine learning model** was trained using **PyTorch**.

CAESAR-CRYPT (NPMJS PACKAGE) (09/2023)

- <https://www.npmjs.com/package/caesar-crypt>
- Made a full working encryption package using the Caesar cipher algorithm using **typescript**.
- Implemented good coding practices in typescript, with full **JsDoc** to support **autocompletion** and VS Code **intellisense**, and **in editor documentation**.
- Implimented **github actions** for **continuous integration** and **development**.
- **Optimized keywords** so that it will show up in first place when searched for in npm marketplace.

Experience

ASSOCIATE SOFTWARE ENGINEER | VOLMATICA | AUGUST 2023 - PRESENT

- the development of a cutting-edge internal product utilizing the MERN (MongoDB, Express.js, React.js, Node.js) stack.
- Demonstrated proficiency in full-stack development, encompassing both front-end and back-end technologies.
- Acted as a key liaison between the development team and clients, conducting interviews to gather requirements and feedback.
- Played a pivotal role in maintaining strong client relationships, resulting in repeat business and referrals.
- Stayed up-to-date with the latest industry trends and technologies, continuously improving skills and contributing to the team's technical growth.

FULLSTACK DEVELOPER | GLOBEWYZE INC. | MARCH 2023 – JULY 2023

- Full-stack developer at Globewyze, expert in MERN stack, handling front-end & back-end tasks for Skillgigs web app (www.skillgigs.com).

- Implemented React Redux for efficient state management and seamless asynchronous actions.
- Utilized Jira for effective project tracking, task prioritization, and seamless collaboration with the team, ensuring on-time delivery of features and bug fixes.
- Proficient in MongoDB, adept at writing efficient queries to optimize database performance and enhance data retrieval for the Skillgigs web application.
- Developed custom React hooks to encapsulate complex functionalities, promoting code reusability and maintainability, resulting in a streamlined development process.
- Kept up-to-date with the latest industry trends and emerging technologies, applying newfound knowledge to suggest and implement innovative solutions.

Education

BACHELORS IN SCIENCE IN COMPUTER SCIENCE | JUNE 2022 | COMSATS UNIVERSITY, ISLAMABAD

Skills & Abilities

- | | |
|--------------|----------------|
| · JavaScript | · Tailwind CSS |
| · React | · NextJS |
| · Nodejs | · Mongoose |
| · MongoDB | · SQL |
| · ExpressJS | · NestJs |

Activities and Interests

Chess, Football, Tabletennis, Gaming, Swimming.