

# MUKESH SWAIN

## Backend Developer | MERN Developer

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## PROJECT WORKS

### AI-Powered Quiz Application

🔗 <https://github.com/MukeshSwain/AI-Powered-Quiz>

Tech Stack: MERN (MongoDB, Express.js, React, Node.js), Gemini AI API, Redux, JWT, Tailwind CSS, Recharts

- Developed a dynamic quiz application that generates AI-based questions using Gemini AI based on user-selected topics and number of questions.
- Integrated Google's Gemini API to deliver real-time, context-aware quiz questions tailored to user input.
- Implemented secure user authentication and route protection using JWT and bcryptjs.
- Enabled users to view their quiz history with details like score, correct/wrong answers, and timestamps.
- Visualized performance analytics with interactive charts (line, bar, pie) using Recharts and managed state using Redux.
- Built a responsive and accessible user interface with Tailwind CSS for an enhanced UX.
- Developed RESTful APIs with Express.js and handled data storage and retrieval with MongoDB Atlas.

### Todo Application with Email Notifications

🔗 <https://github.com/MukeshSwain/Advance-Todo->

Tech Stack: MERN (MongoDB, Express.js, React, Node.js), Nodemailer, node-cron, ShadCN UI, JWT, Redux

- Developed a full-stack Todo application enabling users to **add, update, delete, and manage tasks** seamlessly.
- Used **Redux** for efficient **state management** of user sessions, messages, and authentication state.
- **Implemented email notifications and reminders** with **Nodemailer** and **node-cron**, automating task alerts.
- Implemented secure user authentication and route protection using **JWT**.
- Designed a **modern and responsive user interface** using **ShadCN UI**, improving user experience and accessibility.
- Built scalable RESTful APIs with **Express.js**, and handled data persistence using **MongoDB**.

### Real-Time Chat Application – MERN Stack

🔗 <https://github.com/MukeshSwain/Full-Stack-Chat-App>

Tech Stack: MERN (MongoDB, Express.js, React, Node.js), Socket.io, JWT, Redux

- Developed a real-time chat application enabling instant one-on-one messaging using **Socket.io** for bi-directional communication.
- Implemented **JWT-based authentication** to ensure secure login and protected messaging routes.
- Used **Redux** for efficient **state management** of user sessions, messages, and authentication state.
- Built a robust backend with **Node.js** and **Express**, handling message storage, user sessions, and authentication.
- Integrated **MongoDB** for efficient message and user data management.

## EDUCATION

Master of Science (M.Sc.) in Computer Science

City College of Management and Science, Vikram Dev University

📅 09/2023   Present

## ABOUT ME

**Full-Stack MERN Developer** with a strong backend focus, skilled in **MongoDB, Express.js, React.js, Node.js**, and **Python**. Experienced in building secure, scalable applications using **JWT, Redux**, and optimized **RESTful APIs**. Passionate about developing performance-driven, user-friendly applications with expertise in **database management, server-side logic**, and **API integrations**.

## SKILLS

### Languages

[JavaScript](#)   [SQL](#)   [Python](#)

[Java\(basic\)](#)   [HTML & CSS](#)

### Backend Development

[Node.js](#)   [Express.js](#)   [RESTful APIs](#)

[JWT Authentication](#)   [MongoDB](#)

[MySQL](#)   [API Integrations](#)   [Flask](#)

### Frontend Development

[React.js](#)   [Redux](#)   [ShadCN UI](#)

[Tailwind CSS](#)

### Tools & Technologies

[Git](#)   [Postman](#)   [GitHub](#)   [Linux](#)

[Docker\(basic\)](#)   [Nodemailer](#)

## CERTIFICATION

### Complete web development certification

Covered topics: MERN Stack, REST APIs, Redux, JWT Authentication, NoSQL, SQL

## LANGUAGES

- English
- Hindi
- Odia

Bachelor of Science (B.Sc.) in Information Technology  
Rayagada Autonomous College, Berhampur University

📅 06/2020 06/2023

## DECLARATION

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I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Place : Rayagada

Date : 26/04/2025

Signature : Mukesh Swain

## HOBBY

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- Listening to music
- Traveling with friends