SHWETABH SINGH

SOFTWARE DEVELOPER

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Educational Background

- UNIVERSITY OF LUCKNOW
  B.TECH COMPUTER SCIENCE AND ENGINEERING
  Completed in 2022
- S.J.S PUBLIC SCHOOL (CBSE)
  INTERMEDIATE
- S.J.S PUBLIC SCHOOL (CBSE)
  HIGH SCHOOL

Works At

- TATA CONSULTANCY SERVICES
  (Nov, 2022 - Currently)

About Me

I am a results-driven software developer with aspecialization in creating full-stack MERN (MongoDB,Express.js, React, Node.js) projects. One of my standoutachievements is the development of 'Torrent2Direct,' aninnovative application that revolutionizes torrent file handling. With this project, users can effortlessly convertand access content directly from torrent files,showcasing my commitment to delivering cutting-edgesolutions in web development. My skill set encompassesthe entire development lifecycle, ensuring the creationofrobust and user-friendly applications.

Skills

- API DEVELOPEMENT
- DATABASE KNOWLEDGE (MONGO DB,SQL)
- NODE JS , EXPRESS JS
- EXPRESS MIDDLEWARES, ZOD
- REACT JS, EJS, TAILWIND CSS, AXIOS
- REACT ROUTER DOM, LAZY LOADING
- STATE MANAGEMENT TOOL (RECOIL)
- DOCKER, DOCKER COMPOSE
- JAVA SCRIPT, PYTHON, OOPS, POSTMAN
- AWS (S3,CDN, EC2, LAMBDA ETC)
- JWT , EXPRESS-SESSION, PASSPORT JS
- AUTHENTICATION, AUTHORISATION
- DATA STRUCTURE AND ALGORITHMS
- UBUNTU, KALI
- SYSTEM DESIGN (BASIC)

PROJECTS

Torrent2Direct

https://torrent2direct.onrender.com

- Conceptualized and developed Torrent2Direct web app for efficient torrent file management and direct downloads.
- Implemented seamless uploading, processing, and tracking of torrents with a user-friendly interface.
- Engineered a direct download feature, eliminating the need for traditional torrent clients and enhancing speed.
- Implemented secure user authentication and a robust user management system.
- Ensured a responsive UI design for a consistent experience across various devices.
- Utilized Node.js, Express.js, and MongoDB for backend development, React.js for dynamic frontend.
- Collaborated in an agile team, employing comprehensive testing and rapid iterations.
- Demonstrated proficiency in web development and innovative solutions for user-centric tasks.

WitPic

https://witpics.onrender.com

Developed WitPic, a humorous image-sharing web app inspired by Instagram, promoting creativity in comedic content.

- Implemented secure user authentication and authorization using Passport.js and Passport-Local-Mongoose.
- Utilized Express session management for seamless and secure user experiences.
- Integrated Multer for dynamic image uploads, facilitating the sharing of humorous pictures.
- Developed user profiles and a post model for personalized content showcasing.
- Employed EJS for dynamic content rendering, Axios for frontend-backend communication, and Express.js for efficient routing.
- Managed MongoDB with Mongoose for structured data storage.
- Collaborated with a team for comprehensive testing, addressing bugs, and ensuring optimal performance.
- Successfully showcased modern technologies, creating an engaging platform for wit expression.

Ghost-Stories

https://github.com/shwetabhsingh12345/ghost-stories

Led the design and implementation of a dynamic MERN stack web app, prioritizing scalability and modularity.

Frontend (React.js):

- Developed a responsive UI using React.js with functional components, hooks, and RESTful API interactions.

Backend (Node.js & Express.js):

- Engineered robust APIs, integrating Mongoose for MongoDB interactions and middleware for security.

Database (MongoDB):

- Utilized MongoDB, implementing optimized schemas for flexible and scalable data storage.

Containerization & Deployment:

- Dockerized and orchestrated deployment with Docker Compose for consistency and streamlined configuration.

Collaboration & Version Control:

- Collaborated cross-functionally, utilizing Git for version control, ensuring seamless integration and structured project history.

Results:

- Delivered a polished web app with CRUD functionality, emphasizing MongoDB efficiency for a responsive user experience.

Expertise:

- Demonstrated proficiency in MERN stack, API design, database management, containerization, and collaborative development.

Random-ID-Generator

https://statuesque-khapse-849401.netlify.app/

Developed a React-based web app using Vite and Tailwind CSS for a Random ID Generator.

Features:
- Fetches random user data from https://randomuser.me/api on component mount and via a "Fetch New Data" button.
- Utilizes Tailwind CSS for a visually appealing responsive layout.
- Displays user details dynamically, including name, email, gender, and location.
- Incorporates React hooks (useState, useEffect) for state management and asynchronous data fetching.

Tech Stack:
React, Vite, Tailwind CSS, and the Random User Generator API.

Modern Frontend Practices:
Demonstrates contemporary frontend techniques, providing a dynamic UI and clean code structure.

Result:
A responsive, user-friendly web app showcasing proficiency in React, Vite, and Tailwind CSS.

Weather-WebApp

https://github.com/shwetabhsingh12345/weather-webapp-using-django

Developed a Django-based Weather Web App with real-time information.

Key Features:
- Implemented Django framework for robust backend functionality.
- Utilized AJAX for seamless, asynchronous data retrieval.
- Integrated OpenWeatherMap API for live weather updates.
- Displayed temperature, pressure, humidity, and weather description.
- Included user-friendly details like country code, coordinates, and weather icons.

Tech Stack:
Django, AJAX for dynamic content loading, OpenWeatherMap API.

Result:
Demonstrates web development proficiency, API integration, and creating interactive interfaces for live weather updates.

Face Mask Recognition

https://github.com/shwetabhsingh12345/Face-mask-recognition

Developed a Real-Time Face Mask Detector using Python, TensorFlow, Keras, and OpenCV.

Features:
- Real-time face mask detection with alerts for non-mask wearers.
- Versatile application for face and gender detection.

Methodology:
1. Trained on a Face Mask Dataset for precise predictions.
2. Implemented OpenCV for real-time face detection.
3. Generated warnings for individuals without masks.

Results:
- [Without Face Mask](https://user-images.githubusercontent.com/76063534/133554489-4b95e31a-d06c-4e09-8a1b-ab8f5078fef8.png)
- [With Face Mask](https://user-images.githubusercontent.com/76063534/133554526-310fc074-e1e0-4a25-8bc9-b5105bd72738.png)

Dataset:
Used Kaggle's [Face Mask Detection Dataset](https://www.kaggle.com/wobotintelligence/face-mask-detection-dataset).

Conclusion:
Demonstrates proficiency in Python, TensorFlow, and OpenCV, addressing pandemic safety through effective face mask compliance.