

Darshnik Rohal

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SUMMARY

Full Stack Developer with practical experience building scalable web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js). Built RESTful APIs, integrated MySQL databases, and visualized data using Tableau and Excel. Completed end-to-end deployments and implemented real-time collaboration features. Focused on clean architecture, security, and performance optimization.

PROJECTS

CoDraw - Collaborative Real-Time Drawing Application

March 2025 - April 2025 • Built a multi-user collaborative whiteboard using React, Node.js, Socket.IO, and MongoDB.

- Deployed WebSocket-based synchronization to broadcast drawing actions in under 100ms.
- Developed canvas tools (pen, shapes, text, undo/redo) and session recovery features.
- Scaled the backend to support 100+ concurrent users using Redis and room-based architecture.

Medley Pharma Application

November 2024 - December 2024 • Delivered a full-stack form management platform with drag-and-drop capabilities using React and Redux Toolkit.

- Integrated Express.js and MongoDB backend with CAPTCHA and SSL to enhance security and reduce spam by 90%.
- Created a dashboard for data analytics and export options (CSV/JSON) to aid user decision-making.

Heart Disease Prediction using Boruta Feature Selection Algorithm

February 2023 - April 2023

- Trained a Random Forest model that achieved 98.6% accuracy on the test dataset.
- Applied the Boruta feature selection algorithm to isolate 118 significant features.
- Improved model interpretability by analyzing feature importance and tuning hyperparameters.

SKILLS SUMMARY

Programming Languages: Python, C++, Java, JavaScript

Web Development: React.js, Node.js, Express.js, MongoDB.

Tools & Technologies: Git, GitHub, Jupyter Notebook, VS Code, Postman

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Communication

Database & Data Visualization: MySQL, MS Excel, Tableau

EXTRA CURRICULAR

Volunteer, PAHAL Initiative

December 2023 - August 2024

- Conducted academic coaching for 30+ underprivileged students across 5+ subjects.

Event Manager, Advitya 2023

March 2023

- Managed planning and logistics for a 3-day techno-cultural fest with 25+ events.

CERTIFICATIONS

Data Science with Python

Iamneo • 2025

Fullstack Development (MERN) with MongoDB Developer certification

Smartbridge • 2025

ACHIEVEMENTS

- Solved **300+** coding problems on **LeetCode**, ranking in the **top 35%**, and maintained a 130+ day coding streak.
- Completed the 100 Days of Code challenge on **LinkedIn**, consistently sharing progress on full-stack and data structure projects.
- Solved **200+** problems on **GeeksforGeeks**, strengthening algorithmic thinking and problem-solving proficiency across topics like arrays, trees, and dynamic programming.

EDUCATION

BTech in Computer Science

VIT Bhopal University • 2026 • 9.0