PRAJESH PRAJAPATI

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SUMMARY

Aspiring and self-motivated MERN Stack Developer with a solid understanding of full-stack web development using MongoDB, Express.js, React.js, and Node.js. Skilled in building dynamic, responsive, and scalable web applications with clean and maintainable code. Developed multiple personal projects and a product catalog with CRUD operations and search functionality. Proficient in using tools like Git, GitHub, Postman, and Visual Studio Code. Strong grasp of RESTful API development, MVC architecture, and modern UI libraries such as Bootstrap and Tailwind CSS. Quick learner with excellent problem-solving skills, a collaborative mindset, and a keen interest in learning new technologies and best practices in software development.

TECHNICAL SKILLS

- HTML5/CSS3
- React.js
- Bootstrap
- Tailwind CSS
- Node.js
- Express.js
- MongoDB
- Git
- GitHub
- MySQL
- PostgreSQL

PROJECTS

SPORTS SHOP E-COMMERCE WEBSITE   2021 - 2022
- Developed and deployed a dynamic sport shop application using PHP during academic studies, showcasing proficiency in full-stack web development and project management.
- Empowered users with personalized sport item recommendations and implemented an intuitive admin dashboard for dynamic product management during academic projects.

RESEARCH WORK ON VIRTUAL MIGRATION IN CLOUD COMPUTING   2023
- Implemented research more than 7 different DDOS attack on cloud infrastructure as well as applied virtualization on cloud services.
- Thoroughly analyzed a wide array of cloud attack detection techniques to fortify cybersecurity defenses, fostering a preemptive strategy to threat mitigation.
- Dedicatedly mastered migration pre-copy and post-copy algorithms strategies to optimize cloud infrastructure efficiency and enhance data migration processes, achieving notable improvements in system performance and resource utilization.

BOOK STORE APPLICATION   2024
- Designed and developed a basic book store application using MERN stack, demonstrating proficiency in web application development.
- The app allows users to view a list of books, register/login, book listing and manage their book collection. Used React for the frontend and Node.js with Express for the backend. Stored book and user data in MongoDB and connected everything using REST APIs.

VIMET CHAT APPLICATION   2024 - 2025
- Vimet Chat App is a real-time messaging application developed using the MERN stack. It allows users to register, log in securely with authentication, and chat instantly in one-to-one or group conversations. Real-time communication is achieved using Socket.IO, while the frontend is built with React and styled with Bootstrap for a responsive user experience. The backend handles user management and messaging logic using Express.js and Node.js, with MongoDB used for storing chat data.

VANET:IMPROVING ROUTING RELIABILITY OF AODV PROTOCOL (ADAS)   2024 - 2025
- Developed and implemented an enhanced AODV routing protocol (R-AODV) for Vehicular Ad Hoc Networks (VANETs) to improve communication reliability in dynamic traffic environments.
- The protocol evaluates neighbor nodes based on real-time parameters such as speed, signal strength (RSSI), delay, and congestion to compute a reliability score used during route selection.
- Simulated the system using NS-3 and SUMO, achieving improvements in packet delivery ratio, route stability, and throughput over standard AODV.

EDUCATION

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY   **Changa, Anand**
Master of Engineering   2023 - 2025
Computer Engineering
CGPA: 8.92/10

PARUL UNIVERSITY   **Waghodia,Vadodara**
Bachelor of Engineering   2019 - 2023
Computer Science of Engineering
CGPA:8.24/10

ACTIVITIES

CODE DEBUGGING COMPETITION   **August-2021**
- Participated in a rigorous code debugging competition, securing the 13th rank out of nearly 500 participants, showcasing exceptional solution finding skills and a keen eye for detail.
- Participation in the code debugging competition significantly enhanced my troubleshooter skill, persistence, and patience, while deepening my understanding of algorithms and data structures.

CYBER SECURITY   **August-2020**
- Dedicatedly acquiring essential knowledge and skills to safeguard digital assets against cyber threats.

ADDITIONAL INFORMATION

- **Soft Skills:** Resilience, Adaptability, Self-Motivation.
- **Languages:** Fluent in English, Hindi and Gujarati.
- **Certifications:** Python, Data Science, C & C++, Java, Data Structure and Algorithms, Web Development completed almost 8 months training at **IT Calibre Pvt Ltd**.