

VATSAL BHARKHADA

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Profile Summary

Full-Stack Developer with 3+ years of experience building comprehensive web applications. Computer Engineering student with expertise across both front-end and back-end technologies, proficient in MERN stack (MongoDB, Express.js, React.js, Node.js). Demonstrated capability in developing responsive user interfaces, implementing efficient server-side solutions, and designing database architectures. Committed to delivering high-quality, performance-optimized applications that meet client requirements and enhance user experiences.

Education

Charusat University
B.Tech. in Computer Engineering

June 2022 - Current
GPA: 8.68/10.0

Experience

Web Development Intern (Remote)
Encryptix, Delhi

May 2024 – June 2024

- Orchestrated the development of a visually engaging landing page that incorporated modern CSS practices using SASS.
- Improved code organization and structure, resulting in a 20-30% reduction in future maintenance needs.

Projects

Skill-Augmentation

Live Site

- Led the front-end development of a live project for Charusat University based on the NEP scheme where students claim 100 points by achieving certificates, currently being utilized by more than 3,000 students.
- Designed a structured database system using PostgreSQL that supports seven distinct user roles with role-based permissions and complex entity relationships.

DR.Live

Live Site — GitHub

- Developed an award-winning telemedicine platform using MERN stack (MongoDB, Express, React, Node.js) with integrated WebRTC video calling and real-time chat features.
- Created a medical assistant chatbot using Langchain, Flask, and Gemini that works with the MongoDB database and provides personalized health guidance and physician recommendations with 85% accuracy.

Alumni Hub

Live Site — GitHub

- Created a dedicated platform connecting 500+ former graduates, current students, and teaching staff, enabling professional networking and mentoring opportunities.
- Implemented real-time communication features with Socket.IO, including instant messaging and engagement tools, increasing user activity by 35%.

Technical Skills

Frontend: React.js, HTML5, CSS3, SASS, JavaScript, TypeScript, Redux, Context API, Tanstack Query, Responsive Design

Backend: Node.js, Express.js, RESTful APIs, Socket.IO, WebRTC

UI Libraries: Shadcn UI, Material UI, Tailwind CSS

Languages: JavaScript, TypeScript, SQL, Python, C++, C, Java

Development Tools: Git, GitHub, Postman, MongoDB Compass, Docker, VS Code

Databases: PostgreSQL, MongoDB

Achievements

- Winners of **ODOO×MSU Hackathon** among **900+** entries for developing Dr.Live telemedicine platform, recognized for technical innovation.
- **Runners up** in **Breach Hackathon** at PDEU, Gandhinagar among 50 selected teams for developing CreditUnify, a centralized credit scoring and recommendation platform.
- Ranked in **Top 50** at DotSlash Hackathon at SVNIT among 200+ teams, developing a solution that provides access to healthcare.
- **Runners up** at **Innotech2.0** organized by Department of Computer Engineering, CSPIT for developing **Alumni Hub**, a platform that connects students with alumni enabling professional networking and employment opportunities.