VIKAS YADAV

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Summary

Developer with strong full-stack and backend expertise, experienced in real-time systems, WebRTC, and AI-powered applications. Passionate about building performant, scalable fintech solutions using FastAPI, Python, Node.js, React, and MongoDB. Strong foundation in data structures, algorithms, and system design. Eager to apply backend and AI skills in fast-moving environments like payroll, banking, and analytics.

Education

Bharatiya Vidya Bhavan's, University of Mumbai , India   **2022 - 2025**
- Bsc.CS| CGPA: **8.5**

R.D National College, India   **2019 - 2021**
- *SSC(Class XII), Percentage: 89*

Smt R.N Sheth Vidyamandir, India   **2019**
- *SSC(Class X), Percentage: 76*

Skills

Language: Python, C++, Java, C

Frameworks & Libraries: FastAPI, Express.js, Node.js, React.js

Database : MySQL, MongoDB

Concepts: REST APIs, WebSockets, System Design, OOP, DSA

Dev Tools: Git, Docker, Postman, VSCode

UI/UX: Tailwind, Bootstrap, CSS, Figma

Experience

Fintellect — Frontend Developer (Internship) (April 2025– Present)
- Developed and optimized frontend interfaces using React.js and Tailwind
- Integrated APIs to enable real-time finance and user data updates
- Collaborated cross-functionally with backend and design teams

Projects

AI-Powered Exercise Form Tracker (Link **)**
Designed an AI system using FastAPI + MediaPipe to track form accuracy for workouts like push-ups, squats, and bicep curls. Processed 500+ videos and improved user accuracy by 40%.
Tech: **FastAPI, Python, React, MongoDB, MediaPipe**

Real-Time Chat Application (Link **)**
Built a **real-time messaging platform** using WebSockets & REST APIs, allowing secure and scalable communication.
Technology : Mongo DB, React, Express js, Node js, Socket

Gym Management
- Developed a full-stack web application for managing trainers and members, assigning trainers, and tracking attendance, improving operational efficiency by 30%.
Technology: Mongo DB, React, Express js, Node js

Peer-to-Peer Video Calling
Built a real-time peer-to-peer video calling application using WebRTC. Enables high-quality video communication without the need for centralized servers.
Technology: React, WebRTC

Achievements & Activities

- Volunteer at college tech and cultural festivals
- Built multiple production-ready apps using Flask and React