

RUDRAKSHA KUMBHKAR

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🌐 github.com/DataWiseWizard

🌐 [Portfolio Website](#)

Education

Barkatullah University Institute of Technology

Bachelor of Technology in Computer Science

Sep. 2023 – May 2027

Bhopal, India

Coursework: Data Structures & Algorithms, Database Management Systems (DBMS), Operating Systems, OOP.

iHUB DivyaSampark, IIT Roorkee

Specialization in AI/ML & Drone Technology

Nov. 2025 – April 2026

Online

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, SQL, HTML5, CSS3, Python (Basic)

Frontend: React.js (v19), Next.js, Tailwind CSS, Material UI, Redux, GSAP, Vite, Shadcn/ui

Backend: Node.js, Express.js, Socket.io (WebSockets), REST APIs, JWT, Passport.js

Database & AI: MongoDB (Atlas Vector Search), Firebase (Firestore), PostgreSQL, Google Gemini API

Developer Tools: Git, GitHub, Postman, Vercel, Cloudinary, Linux (Ubuntu)

Work Experience

Unified Mentor

Nov. 2025 – Feb. 2026

Web Development Intern

Remote

- Engineered scalable full-stack applications using the **MERN Stack**, adhering to MVC architecture and agile methodologies.
- Developed **ClinicOS**, a real-time healthcare platform serving live patient queue data via **Firebase WebSockets**.
- Optimized frontend performance by 40% through implementation of Code Splitting, Lazy Loading, and Memoization.
- Collaborated with senior developers to implement Role-Based Access Control (RBAC) and secure authentication flows.

Projects

Pinch – AI-Powered Visual Discovery Engine | React 19, Node.js, Gemini AI, MongoDB

- Architected an AI-native social platform using **Google Gemini 1.5 Flash** to automate semantic tagging and generate 768-dimensional vector embeddings for uploaded images.
- Engineered a "Hybrid Recommendation System" using **MongoDB Atlas Vector Search** to curate personalized feeds based on user interaction signals (Views vs. Saves).
- Implemented **Semantic Search** with Lucene-based fuzzy matching to replace standard regex queries, improving search relevance for "vibe-based" queries.
- Optimized user experience with **Optimistic UI updates** using TanStack Query, achieving sub-second interaction latency.

ClinicOS – Distributed Healthcare Platform | React, Firebase, Tailwind CSS

- Designed an Event-Driven Architecture utilizing **Firebase Listeners** to synchronize patient status instantly across reception and doctor dashboards.
- Implemented a "Gatekeeper" security pattern with **RBAC** to securely separate public kiosk inputs from private administrative data.
- Built a resilient **Offline-First PWA** using Service Workers to ensure continuous operation during network instability.

Secure Vault (SeDocx) – Sovereign Identity Storage | MERN Stack, AES-256

- Developed a "Privacy by Design" digital locker using **Node.js Crypto**, ensuring files are encrypted at rest and in transit with AES-256 standards.
- Engineered an on-the-fly decryption pipeline to stream files directly to the client, preventing unencrypted data from ever touching the server disk.
- Implemented granular **Access Control Lists (ACL)** for time-bound file sharing and immutable audit trails.