

AASHI JAISWAL

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🌐 github.com/Aashijaiswal-hub

🌐 [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.

Technical Skills

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

Frontend: React.js, Next.js, Tailwind CSS, Material UI, Redux, GSAP, Vite

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

Database: MongoDB, Firebase (Firestore), PostgreSQL

Tools: Git, GitHub, Postman, Vercel, Zustand, 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

Pro Music Player | *Next.js, TypeScript, Web Audio API, Zustand*

- Engineered a high-performance audio application using the **Singleton Design Pattern** for the Audio Controller, preventing memory leaks and overlapping playback.
- Integrated the **Web Audio API** to render real-time frequency visualization via HTML5 Canvas, synchronized with audio data streams.
- Implemented **Zustand** for global state management to handle complex queue logic and persistent local storage preferences.

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

- Designed an Event-Driven Architecture utilizing **Firestore 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.