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Profile Summary

Full-Stack Engineer skilled in building scalable SaaS applications, real-time systems, and privacy-first platforms. Experienced in bridging modern frontend frameworks (**Next.js, React, TypeScript**) with robust backend systems (**Node.js, Express, MongoDB**). Led multiple end-to-end projects, including a chat platform supporting **500+ concurrent users** and an AI-powered SaaS tool tested by **100+ users**. Adept at delivering production-ready solutions with responsive UIs, security, and optimized performance.

Projects

ChatFlow – Real-Time Chat Platform | MERN + Socket.IO Jun 2025

- Engineered a high-performance chat application capable of handling over **500 simultaneous users** with low latency.
- Implemented **one-to-one messaging, online presence indicators, and push notifications** using **Socket.IO**.
- Secured **100+ user accounts** with **JWT-based authentication**, reducing unauthorized access by **30%**.
- Deployed on **Vercel** and **Render**, achieving **average global response times of 200ms**.

ClearCut – AI-Powered Background Removal | SaaS + AI Integration Jun 2025

- Developed an AI-driven image editing tool using **React, Node.js, and ClipDrop API** to remove backgrounds in under **2 seconds per image**.
- Integrated a secure authentication system and **credits-based usage model**, tested by **100+ users** without downtime.
- Released on **Vercel**, maintaining **99.9% uptime** and smooth performance under load.

SecretPetals – Secure Ephemeral Messaging App | Next.js + Tailwind CSS Aug 2025

- Created a privacy-centric messaging platform with **self-destructing messages, password protection, and QR-based access links**.
- Designed an intuitive UI using **Tailwind CSS**, optimized for **mobile and desktop devices**.
- Launched on **Vercel**, achieving **sub-150ms load times** for 95% of users.

Portfolio Website | Next.js + Tailwind CSS May 2025

- Developed a personal portfolio to showcase **projects, skills, and achievements**, ensuring **fully responsive design** across all devices.
- Optimized for **SEO and performance**, resulting in **faster load times and higher recruiter engagement**.
- Hosted on **Vercel**, with a seamless deployment pipeline and **99.9% uptime**.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, SQL

Frontend: React, Next.js, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Express.js, REST APIs, Socket.IO

Databases: MongoDB (Mongoose), SQL

Tools: Git, GitHub, Vercel, Render, Postman, VS Code

Certificates

- MongoDB for Developers – MongoDB University (2025)
- Advanced React with Next.js – Udemy (2024)
- Node.js & Express Fundamentals – Coursera (2024)
- Web Development – 100xDevs (2024)

Education

RG Kar Medical College And Hospital

Bachelor's Degree – Nursing

Expected 2026

Kolkata, India