

Mehul Chauhan

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ABOUT

Growth driven **Software Engineer** with **2.5+ years of experience** building scalable, production-grade applications using **MERN, Next.js, Node.js, Express.js, REST APIs, and cloud technologies**. Driven about solving complex backend problems, improving system performance, and building reliable full-stack products. Experienced in working across fast-paced teams, delivering features under tight timelines, and continuously learning new technologies. Launched **2 AI-integrated products**, **PLANORA** and **DOCAI**, focused on real-world automation and productivity use cases.

EXPERIENCE

108 Systems

June 2026 – Present

Full-Stack Developer

Delhi, India

- Engineered **Better Auth** with cookie-based web sessions and token-based authentication for **React Native**, including protected routes and session lifecycle management.
- Implemented **Redis-backed rate limiting** with **express-rate-limit** across protected APIs, mitigating brute-force attacks, request flooding, and API abuse.
- Built **BullMQ** email queue with asynchronous workers, retries, and persistent jobs to prevent email loss during server failures.
- Hardened API inputs with **Zod runtime validation**, enforcing schema-based request validation before application and database processing.
- Integrated **Stripe** webhooks with a credit-based post-boost system, handling payment verification, credit allocation, invoice generation, and refund workflows.
- Built secure **Cloudinary/R2 media pipelines** with signed uploads, containerized and deployed the application on **Render** using **GitHub Actions CI/CD**.

ESD Media and Marketing

Aug 2025 – May 2026

Full-Stack Developer and QA

Gurugram, India

- Migrated core frontend from React.js to Next.js, cutting page load time by **2.3** seconds and slashing RAM consumption by **75%**, enabling **1,200** concurrent users without degradation.
- Deployed and automated full-stack infrastructure using **CI/CD pipelines** with **GitHub Actions**, **AWS ECR**, **AWS ECS**, and **Docker**, reducing deployment cycles by **50%** and maintaining **99.99% uptime**.
- Cut Docker image size from **600MB** to **124MB** using multi-stage builds, accelerating deployment time by **50%**.
- Added OTP-based authentication using **Passport.js** and **JWT**, reducing login issues by **25%** for **1,000+** users.
- Created a stateless signup flow with stripe payment that delayed unnecessary database writes, reducing **DB** writes by **60%**.
- Introduced paginated data fetching for large datasets, reducing memory usage by **60%** and improving page load time by **40%**.

Aaloo.ai

Dec 2024 – Aug 2025

Lead Software Developer

Noida, India

- Amplified app performance by **35%** and reduced bundle size using async code-splitting with **TanStack Router**.
- Structured a **MongoDB** data model that improved query performance by **60%**.
- Eliminated **30%** of code redundancy by developing and implementing custom **React hooks**, increasing maintainability across **15+** components.
- Optimized a parallel scraping workflow using **Playwright** and API Gateway, reducing food data collection time by **30%**.
- Developed a **Next.js** admin analytics dashboard with **Supabase** authentication and protected routes, reducing custom auth logic by **40%**.

SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frontend: React.js, Next.js, Tailwind CSS, Redux, Zustand, TanStack Query, Framer Motion, GSAP, ShadCN

Backend: Node.js, TypeScript, REST/GraphQL APIs, Redis caching, Elasticsearch, Scraping (Playwright)

Databases: PostgreSQL, MongoDB, MySQL, Prisma ORM

DevOps: GCP, AWS (ECS, ECR, Lambda, S3, RDS), Docker, CI/CD (GitHub Actions, Jenkins), Systems Architecture

Tools & Platforms: Git, GitHub, GitLab, Postman, Swagger, Vercel, Supabase, Figma, Jira, Slack

ACHIEVEMENTS

create-requiem-next-app – Creator & Maintainer

NPM / GitHub

- Built a **CLI** tool to scaffold **Next.js** apps with state management, layouts, and UI utilities, reducing setup time from hours to under 1 minute, achieved **1,000+** installs on **NPM** in a week, becoming a popular starter for Next.js, React & Express projects

EDUCATION

College of Engineering Roorkee (COER)

Roorkee, India

B.Tech in Computer Science and System Engineering / CGPA:8.2

July 2020 – June 2024