Mridul Kalra

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globe static-portfolio-nine.vercel.app

TECHNICAL SKILLS

- **Programming Languages**: C, C++, JavaScript, TypeScript, SQL
- **Frontend Development**: React.js, Next.js, Tailwind CSS, Vite, HTML5, CSS3, Redux Toolkit
- **Backend Development**: Node.js, Express.js, MongoDB, Appwrite, Firebase, REST APIs, WebSockets
- **DevOps & Cloud**: Git, GitHub Actions, CI/CD Pipelines, Turborepo, Vercel, Render, Docker
- **APIs & Integrations**: Plaid API, Dwolla API, Swagger, Postman, WebSockets
- **Performance Optimization**: SEO, Caching, Lazy Loading, Code Splitting, Sentry Monitoring

PROFESSIONAL EXPERIENCE

Full Stack Developer (Freelance) — Software Giant *08/2024 - 12/2024*

- Developed and maintained MERN stack applications serving 10,000+ active users with 99.9% uptime
- Implemented CI/CD pipelines using Turborepo, reducing deployment errors by 50%
- Optimized frontend performance by 30% through route-based code splitting and TailwindCSS optimization
- Designed modular backend architecture with Express.js and centralized state management using Redux Toolkit

Frontend Developer Intern — Aeonion Devs *05/2024 - 07/2024*

- Delivered 5+ major features using Next.js and Tailwind CSS, reducing page load time by 35%
- Improved SEO traffic by 18% through optimized landing pages built with Vite and React
- Streamlined development workflows, reducing cross-team delays by 40%
- Automated release processes using GitHub Actions and Turborepo with rollback capability

KEY PROJECTS

Second Brain - AI Content Management Platform

- Developed full-stack knowledge management system aggregating YouTube, GitHub, tweets, and PDFs
- Implemented JWT authentication and public sharing features, increasing engagement by 25%
- Optimized MongoDB queries with indexing and pagination, reducing API response time by 40%
- Configured CI/CD pipelines with Vercel for automated deployments and rollbacks

FlashPay - Fintech Payment Application

- Built Next.js payment platform with Plaid (account verification) and Dwolla (ACH transfers) integration
- Implemented transaction monitoring using Sentry, reducing incident resolution time by 60%
- Developed secure authentication using Clerk and backend services with Appwrite
- Deployed production-ready application on Vercel with TypeScript and Tailwind CSS

Excali Sketch - Collaborative Whiteboard

- Engineered real-time collaborative canvas using native Canvas API and WebSockets
- Maintained sub-200ms latency for concurrent edits through optimized Express backend
- Implemented room-based session management supporting 10+ simultaneous users
- Deployed using Turborepo monorepo to Vercel (frontend) and Render (backend)

EDUCATION

Bachelor of Technology in Information Technology

University Institute of Technology, RGPV, Bhopal *08/2022 - 06/2026 (Expected)*

ACHIEVEMENTS & COMMUNITY

- LeetCode: 300+ problems solved (Arrays, Graphs, DP, System Design)
- GeeksforGeeks: Active contributor for DSA and core CS concepts
- CodeChef: Regular participant in competitive programming contests