SPARSH MEHRA

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WORK EXPERIENCE

KocharTech | Software Engineer **AUG 2023 - Present**

- Architected a multi-tenant SaaS platform using NestJS and React.js, supporting over 5,000 daily active users ensuring high performance, scalability, and reliability across the system.
- Revamped the client onboarding process by automating the setup flow, reducing time by 90%, cutting operational workload by 50%, and lowering infrastructure costs by 40%, resulting in a more efficient client experience.
- Implemented caching strategies using Redis, increasing data retrieval speeds by 40% and boosting system responsiveness and reliability during peak usage.
- Automated the CI/CD pipeline using DevOps practices, increasing code deployment efficiency by 25% and enabling faster, more frequent updates.
- Resolved 95% of client-reported issues, meeting tight deadlines and enhancing client satisfaction with rapid issue resolution and quality assurance.

KocharTech | Software Engineer Intern **AUG 2022 - AUG 2023**

- Eliminated persistent UI defects, reducing user-reported issues by 25% and refining interface stability for a smoother intuitive user experience that boosted satisfaction.
- Optimized database structures through indexing and normalization, accelerating data retrieval speed by 30% and improving performance, leading to faster response times and better user interactions.
- Integrated RESTful APIs, optimized database schemas, and applied connection pooling, achieving a 15% improvement in system performance.
- Built a live notification system using SSE and Redis for real-time updates on agent alerts, and process completions, improving supervisor engagement with instant feedback and automated emails following threshold-based alerts.

EDUCATION

Amritsar Group Of Colleges, Punjab Technical University, Amritsar, Punjab **AUG 2019 - JUN 2023**
B. TECH - Computer Science Engineering **Grade: 7.6**

SKILLS

Languages:	JavaScript, TypeScript, HTML 5, CSS, React.js, Redux
Frameworks:	Angular, Node.js, NestJS, Next.js, Express, Bootstrap, Tailwind CSS
Technologies:	Docker, Redis, Prisma, Keycloak, Jira, Git
Databases:	MySQL, MongoDB, PostgreSQL

PROJECTS

EngageMax | MERN Stack **(Github)**

- Designed and implemented a corporate workspace platform facilitating employee collaboration, feedback sharing, and anonymous concern reporting, with management tools for issue assignment, tracking, and resolution.

Traveler Diaries | MERN Stack, Mapbox **(Github)**

- Developed a Travel Log application for users to share authentic travel reviews using the Mapbox API, enhancing location-based interaction and engagement through a visually interactive experience.

Yo Cars | PHP, MySQL, JavaScript **(Github)**

- Developed a car rental platform enabling streamlined car rental operations, focusing on improving rental services in Tier 2-3 cities, increasing rental efficiency, and broadening customer access.

CERTIFICATIONS

- **Oracle Certified** Foundations Associate
- **Microsoft Certified**: Power Platform Fundamentals
- **Microsoft Certified**: Azure Fundamentals
- **Udemy Certification** in Full Stack Development