

SAHDEV RAI

Gwalior, M.P. 474003

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Summary

Full-stack developer with 2+ years of experience specializing in MERN stack, fintech security, and performance optimization. Skilled in building scalable architectures for 20,000+ daily users and integrating third-party services.

Experience

Square Yards

August 2023 – Present

Senior Software Engineer

Mumbai, Maharashtra

- Developed **CredIQ**, a Home Loan disbursal platform, using **React.js**, **Express.js**, and **MySQL**, reducing load time by **30%** and significantly improving performance and responsiveness.
- Fortified **API security enhancements** using Bearer Token authentication, reducing unauthorized access incidents by **75%** and safeguarding sensitive user data.
- Integrated third-party APIs from **TransUnion CIBIL**, **ICICI Home Loans**, **Piramal Finance Limited**, and **Home Capital**, expanding CredIQ's service offerings by **60%**.
- Engineered an advanced **Loan Gateway system** analyzing users' credit scores to present personalized home loan options, now serving over **20,000** customers daily with a **98%** uptime.

BITCS

May 2022 – July 2023

Software Development Engineer Intern

Noida, U.P.

- Spearheaded development of **MatriMilan**, a matrimonial app built with React Native, adding key features and optimizing performance for a smoother user experience.
- Partnered with senior developers to **optimize application** performance, **reducing load times by 45%** and improving overall user experience.

Technical Skills

Programming Languages: JavaScript, Typescript, Python

Web technologies: HTML, CSS

Platforms/Tools: Git, GitHub, VScode, Linux, Postman, Jira, Apache

Databases: MySQL, SQLite, Sequelize, TypeORM, Google Firebase, NoSQL, MongoDB

General: Data Structures, Algorithm, OOP, REST APIs, Agile Methodology

Libraries/Frameworks: React.js, React Native, Redux, NodeJS, Next.js, Express.js, Bootstrap, Material UI

Projects

CredIQ | *React.js, Express.js, MySQL, Redux*

- Formulated and deployed a centralized RBAC microservice to manage user permissions across **5+** internal applications, featuring hierarchical roles and granular access control.
- Engineered a comprehensive security system using **Express.js**, fortifying API and data protection.
- Architected third-party API integrations with **3+ lenders**, streamlining credit verification and reducing loan processing time by **40%**.
- Deployed microservices architecture ensuring **99.9% availability** under peak loads of **5,000+ concurrent users**.

MatriMilan | *React Native, Expo, MongoDB, Google Firebase, Redux*

- Crafted **MatriMilan** using **React Native** and **Expo**, optimizing responsiveness and cross-platform user experience.
- Designed responsive user interfaces with **Expo**, ensuring consistent experience across **IOS** and **Android** devices.
- Implemented **custom hooks**, **Redux** and **Context API** for efficient state management and cleaner code.

CollabCanvas | *Next.js, Socket.IO, Express.js, YJS, CRDT* | Source Code

- Developed a real-time collaborative whiteboard application using **Conflict-free Replicated Data Type (CRDT) technology**, enabling simultaneous editing with zero conflicts.
- Formulated a **Git-like branching model** to enable isolated user workspaces and controlled change merging.
- Established efficient real-time communication using **Socket.IO** and **YJS**, supporting **50+** users per whiteboard with user presence indicators and customizable drawing tools.

Education

Madhav Institute of Technology and Science, Gwalior

July 2019 – June 2023

Bachelor of Technology in Information Technology

CGPA: 8.24

Achievements

- Awarded **Best Performer** of the quarter for significant contributions to critical projects at Square Yards (2023).
- Earned a **4-star (1811)** rating on CodeChef by solving advanced algorithmic problems.