

# Sameer Yadav

MERN Stack Developer

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MERN Stack Developer with 1.9 years of experience in building secure and scalable web applications. Proficient in MongoDB, ExpressJS, ReactJS, NodeJS, and AWS services. Expertise in data security (AES-256, JWT, SSL, HSTS, 2FA), implementing WebSockets for real-time communication, Protocol Buffers for efficient data serialization, and Redis caching with MongoDB ChangeStreams for real-time updates. Skilled in CI/CD using AWS CodePipeline, CodeBuild, and CodeDeploy, with experience in autoscaling, load balancing, and offline capabilities using Workbox.

## Work Experience

October 2024 **Paymaster Management Solutions, Ahmedabad, Gujarat.**

- Working MERN Stack Developer

- Developed a robust HRMS web application, focusing on security, performance optimization, real-time communication and advanced React concepts to enhance user experience and system scalability.
- Security Enhancements:** Implemented session-based authentication with **sliding session management, 2FA, WebAuthn, log-in anomaly detection.**
- Data Protection:** Focused on data in transit and data at rest, implementing **SSL** and **HSTS** for secure transmission and using **AES-256 encryption** to store sensitive data in the database.
- Performance optimization:** Used **Redis caching** (write-through approach) with **MongoDB ChangeStreams** and **BullMQ**, along with **React lazy loading, memoization, Error Boundaries**, and **Workbox** service workers for offline capabilities.
- Real-Time and Scalable Architecture:** Integrated **WebSockets** and **Firebase push notifications** for real-time updates.
- Data Optimization and Efficiency:** Used **Protocol Buffers** to minimize payload size and enhance response times.

May 2023 - **Alluvium IoT Solutions Private Limited, Ahmedabad, Gujarat.**

August 2024 MERN Stack Developer

- Led the AIVision EXIM project, mastering MongoDB, ExpressJS, ReactJS, and NodeJS for full-stack development. Deployed the project on AWS EC2 and S3, implementing advanced AWS services, including:
  - Auto-scaling** and **Load balancing** to ensure high availability and reliability.
  - Blue/Green deployment** for seamless updates with minimal downtime.
  - CI/CD pipelines for EC2** instances to streamline deployment.
  - Implemented **CI/CD for S3**, optimizing workflows.
  - Deployed React applications on **AWS Amplify** for rapid and scalable frontend hosting.
  - Implemented **SSL for load balancers** to secure communications.
  - Leveraged **AWS SES** for email services within the application.
  - Used **Node.js clustering** to improve server performance and scalability.
- Contributed to three projects—AIVision STAMP, AIVision TEX, and AIVision PI—focusing on frontend development.

- o Mastered event scheduling and automating report generation. Successfully implemented automated report delivery in PDF and Excel formats.

## Education

- 2012 - 2016 **B.Tech**, *Inderprastha Engineering College, Ghaziabad, Percentage - 69.8.*  
Civil Engineering
- 2012 **12th**, *Amity International School, CBSE, Ghaziabad, Percentage - 71.2.*  
Maths, Physics and Chemistry, Computer Science
- 2010 **10th**, *Maharaja Agarsain Public School, CBSE, CGPA - 8.*

## Projects

- Whatsapp Web Clone using ReactJS and Firebase **<https://wapp-c2920.firebaseio.com/>**, *I have used ReactJS for the frontend and Firebase for backend. Users can login using Firebase Auth. I have added dark theme, messages and media sharing, webcam integration, message read indicator and typing indicator and user blocking features..*  
**Platform** : Web
- Expense tracker app **<https://reactjs-expensetracker.web.app/>**, *An expense tracker app where where you can manage your expenditure by tracking your incomes and expenses through simple graphs..*  
**Platform** : Web
- E-commerce website using MERN stack **<https://github.com/ysam020/Depot-mern>**, *A full-stack web app using MERN stack. I have implemented Redux and Redux Thunk to manage state and handle asynchronous actions..*  
**Platform** : Web, **Backend** : NodeJS, **Frontend** : ReactJS

## Skills

### Programming Languages/ Frameworks

<b>ReactJS</b>	<b>NodeJS</b>	<b>MongoDB</b>
<b>Javascript</b>	<b>Express</b>	<b>HTML</b>
<b>AWS</b>	<b>Redux</b>	<b>SASS</b>
<b>Firebase</b>	<b>MUI</b>	<b>Redis</b>

### Protocol Buffers

## Personal Skills

- Efficient time management
- Good problem solving skills
- Quick learner
- Team player

## Languages

<b>English</b>	<i>Read, Write, Speak</i>
<b>Hindi</b>	<i>Read, Write, Speak</i>