

# Shubham Verma

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## Summary

Software Engineer with a proven track record in full-stack development (MERN) and comprehensive testing (white box, SQL, API). Committed to building high-quality, scalable software.

## EXPERIENCE

- **Rupy (Cardkho)** Remote  
July 2024 - July 2025
  - *Quality Analyst*
    - Oversaw quality for loan management systems, increasing code coverage by **35%** through detailed analysis of backend logic, control flow, and conditional branches.
    - Contributed to debugging efforts using **RockMongo** and **Chrome DevTools**, reducing defect resolution time by **25%** through proactive identification of frontend issues.
- **Cogmac Technologies** In-Office  
June 2023 - August 2023
  - *Full Stack Developer*
    - Leveraged **React** and other cutting-edge technologies to design and build an efficient software to scan **RFID cards**.
    - Engineered a user-friendly web portal that enabled a **50%** boost in user registrations via RFID cards.
    - Achieved a **20%** reduction in registration time by optimizing portal performance, enhancing user satisfaction.
    - Achieved the milestone of allowing user to register 1 new card in under 1 second.
  - *Android Developer*
    - Developed a lightweight RFID card scanning app using **React Native**, optimized for performance on low-end devices.
    - Implemented real-time database interactions to register new RFID cards **in under 1 second**.
    - Optimized app build and asset sizes, resulting in a compact and efficient deployment **under 10MB**.
    - Collaborated with backend team to ensure seamless API integration and accurate data syncing with **MongoDB**.

## PROJECTS

- **Tether Read AI** - (Next.js, React, Firebase, Cloudflare R2, MongoDB) [Link](#)
  - Built a cross-platform **EPUB reader** with **Next.js** and **epub.js**, supporting seamless book rendering and navigation.
  - Reduced initial load time by **40%** through caching strategies and pre-signed URL optimization.
  - Designed a backend service with **MongoDB integration** to persist reading progress across devices.
  - Built an **AI recommendation system** powered by **Mistral Small 3.2**, seamlessly integrated into the user's digital bookshelf.
- **Color Commits** - (Next.js, React, TailwindCSS, GitHub REST API) [Link](#)
  - Built a GitHub repository visualizer in **Next.js** that fetches and displays directory structures with real-time file metadata using the **GitHub REST API v3**.
  - Implemented a color-coded age analysis system to classify files by last commit date, improving repo scan clarity by **60%**.
  - Added tooltip-based **relative time indicators** with dynamic hydration-safe logic, ensuring cross-device consistency and UX reliability.
  - Introduced client-side **caching layers** using **useRef**, reducing redundant API calls by over **70%** during navigation.
- **News Room 24/7** - React, NewsAPI [Link](#)
  - Built a news aggregator app using **React** and **NewsAPI** to display real-time news from 30+ sources across multiple categories.
  - Reduced data load time by 20% via lazy loading and optimized API fetching.
  - Modularized components for reusability, reducing code duplication by **25%**.

## SKILLS

- **Programming Languages:** C++, Java, JavaScript, SQL, HTML/CSS
- **Frameworks & Libraries:** React.js, Node.js, Express, Next.js, React Native, Tailwind CSS
- **Tools & Platforms:** Git, GitHub, Cloudflare R2, Firebase, MySQL, MongoDB, Postman, Linux, Windows
- **Development Skills:** Full-Stack Development, REST API Development, Android Development
- **Testing Skills:** Manual Testing, API Testing, SQL-based Data Validation

## EDUCATION

- **Maharaja Agrasen Institute of Technology** Delhi, India  
August 2020 - August 2024
  - *Bachelor of Technology - Computer Science*