

# Rahul Sharma

Gurugram, India

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## Education

### Punjab Engineering College (Deemed to be University)

B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING | CGPA - 7.73

Chandigarh, India

Dec 2020 - Jun 2024

## Work Experience

### ZS Associates

BUSINESS TECHNOLOGY SOLUTIONS ASSOCIATE

Gurugram, India

Jun 2024 - Present

- **Engineered** Python-based automation with multithreading and AWS S3 integration that archived **100+ Tableau workbooks (7GB+)** in minutes, replacing manual processes and reducing storage costs.
- **Scaled Tableau automation to 130+ projects across 6 sites**, providing reliable versioned backups that eliminated manual overhead and significantly improved trust in reporting workflows for both client stakeholders and internal analysts.
- **Optimized SQL pipelines** for patient and sales datasets (50M+ rows), improving query times by **60%** and mentoring peers on performance tuning; selected for Ultra Rare Project for strong engineering focus.
- Built custom **CI/CD flows** for dashboard deployment, versioning, and data refreshes; reduced release errors by **40%**.
- Led daily client **UAT calls** with US teams; translated requirements into systemized workflows and managed high-pressure releases ahead of deadlines.

### StockBets

CO-FOUNDER & CTO

Chandigarh, India

Jan 2023 - Apr 2024

- **Architected** full-stack trading platform (React, Firebase, Node.js, MongoDB) with real-time AI-driven predictions and order handling via Socket.IO.
- Implemented **real-time communication** layer with Socket.IO, enabling multi-user live trading simulations during pilots.
- Built **AI chatbot (Python, Flask)** for financial insights; improved user engagement and retention during pilots.
- Implemented secure **authentication** and **session management** using **Passport.js**, supporting **role-based access** and safeguarding trade execution APIs.
- Optimized **MongoDB** schema and **indexing strategy** to support high-frequency order writes and queries, ensuring **low-latency execution** in live trading flows.
- Established **CI/CD pipeline** with GitHub Actions and **AWS EC2**; automated deploys and reduced downtime by **80%**.
- Platform gained **investor interest** and was selected by **Indian School of Business Startup Initiative**.

### XEAM Ventures Pvt. Ltd.

WEB DEVELOPER

Mohali, India

Jan 2023 - May 2023

- Developed a **React Native** food delivery app with **Redux Toolkit + Firebase**, boosting client order volume by **25%**.
- Adopted **TypeScript** to improve code reliability, reducing debugging time by **15%**.
- Built a responsive website with **Next.js** and **Tailwind CSS**; applied **PWA techniques** to achieve **40% faster load times**.

## Projects

### WorkTrack (React Native, Firebase, WatermelonDB)

PERSONAL PROJECT

Jan 2025 - Present

- Developed **offline-first attendance tracking app** with sync conflict resolution and local DB (**WatermelonDB**).
- Added predictive **Playground Mode** using statistical modeling to forecast attendance trends.
- Delivered clean, role-based UI with **Firebase Auth**; supports family view-only roles and custom holiday configs.
- Engineered **modular service layer** separating **Firebase**, **Sync**, and **Local DB** logic; improved maintainability and reduced coupling.
- **Designed for pilot adoption within hybrid teams**, with early interest from colleagues to deploy the app for attendance insights.

## Position Of Responsibility

### PEC ACM Student Chapter

OPEN SOURCE LEAD & MAINTAINER

Sep 2021 - Jun 2024

- Reviewed & merged **78 PRs**, authored **45 contributions**, and streamlined repo workflows to improve onboarding.
- Mentored peers in **React/Node best practices**, raising code quality and contributor engagement across the open-source community.

## Skills

### Languages & Systems

JavaScript/TypeScript, Python (automation, concurrency), SQL, C++

### Frameworks & Tools

React, Node.js, Express, React Native, Flask, Firebase, WatermelonDB

### Data & Infra

AWS S3, EC2, IAM; GitHub Actions (CI/CD); Socket.IO; Tableau Server Client API

### Concepts

Distributed systems, scalable system design, offline-first architecture, performance tuning