

# RISHABH GUPTA

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## Technical Skills

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**Languages / Frameworks:** Nodejs, Express.js, Fastify, C++, Javascript, React.js

**Technologies / Tools:** Relational and non relational DBs, DBMS, WebRTC, Web Sockets, Docker, Redis, Message Queues, Nginx, Git, Grafana, Temporal

## Professional Experience

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### Signzy

Nov 2023 – Present

SDE - I

Bangalore, Karnataka

- Created a service(video-worker) to **convert video** files from WebM to MP4 format synchronously.
- Added alerting and notification system in google chat for failed vendor APIs and created a webhook to retrigger failed APIs in Grafana.
- Developed a **paginated query** system that exports data in 10K-row per CSV, compresses them and sends to the client.
- Implemented **hybrid encryption** and **decryption** in video-kyc product to transfer data over API securely.
- Real-Time Background Change: Used **BodyPix** model of tensorflowjs library for live video segmentation and dynamic background changes during calls.
- Enhanced security by implementing Two-Factor Authentication (**2FA**) into the VKYC application login.
- Implemented **event logging** of journey of a user using **RabbitMQ** for call monitoring and analytics.
- **Leadership/Ownership:** Led the **architecture** and development of Standalone VKYC product, implementing role based access control (**RBAC**) for secure user access.
- Created **mongodb aggregation** pipeline, added indexes in db, and created optimised APIs for analytics dashboard.
- On-call roaster: I have handled **critical issues** that were severely impacting the client's business and provided immediate hotfixes in production to resolve these problems swiftly.
- Tech used in the Industry: JavaScript, RabbitMQ, MongoDB, Node.js, Express.js, Socket.io, **WebRTC**, Redis.

### Clari5

Jan 2023 – July 2023

SDE Intern

Bangalore, Karnataka

- Integrated internal service calls with **JWT authentication**.
- Debugged and resolved over 30 critical bugs, ensuring the stability and reliability of the system.
- Developed more than 10 frontend features for the application, enhancing its functionality and user experience.
- Created a data model aggregation script to show various types of graphs to know business insights on the dashboard.
- Tech used in the Industry: Java, React, Minikube, Docker, **Git**, Linux.

## Projects

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### Product Suite

July 2024 - Present

- A **Generative AI** project - Application that generates follow-up questions using **LLM**, based on user responses.
- Feature to create document Bots: A **RAG** application that gives the answers from a uploaded pdf file.
- Feature to share bot and make password protected BOTs.
- Integrated **OAuth** for robust user authentication and seamless access management.
- Technologies: MongoDB, Express.js, Node.js, JWT Authentication, OAuth2, **OpenAI** integration, vectordb

### Portfolio

Oct 2023 - Nov 2023

- Developed a personalized website, offering extensive customization capabilities with an intuitive admin panel.
- Modifications to any section can be effortlessly made, reducing the need for repetitive code editing.
- Leveraging services like Firebase real-time database and storage, all data, links, and images are efficiently stored.
- This application implements Firebase authentication to ensure secure access for administrators.
- Technologies: React.js, Email.js, firebase real-time database, firebase storage.

## Leadership / Achievement

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- Achieved 1st rank among 10 teams in a organization for leading a AI project and doing innovation like introducing MCP servers in a super sprint.
- Eliminated a dependency on external teams, developed a customer onboarding platform, and saved nearby Rs 1 crore yearly through effective project leadership.

## Education

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**Maulana Azad National Institute Of Technology (NIT - Bhopal)**

Dec 2020 – June 2023

Master of Computer Application

**CGPA: 8.64 / 10**