

# Harsh Rajput

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## SKILLS SUMMARY

- **Languages:** Go, Java, JavaScript, HTML/CSS, SQL
- **Libraries:** Gin, GORM, gRPC, net/http, React, Next.js
- **Technologies:** MySQL, Redis, Kafka, ElasticSearch (Data) | Docker, Kubernetes, Jenkins (DevOps) | AWS (Cloud)

## PROFESSIONAL EXPERIENCE

- **Exotel** Feb 2025 - Aug 2025  
Gurugram  
*Member of Technical Staff - 1*
  - **Legs Platform**  
*Go, Docker, PostgreSQL, Redis, ElasticSearch, AWS, SIP Trunking*
    - \* Revamped Causix microservice in **Go** to detect call types using AI inference, **concurrently** processing **10K+** calls per minute.
    - \* Orchestrated **11 microservices** into **Compose** stack, cutting onboarding time from 2 weeks to 1 day for QA and local setups.
    - \* Automated data recovery from **PostgreSQL** to **ElasticSearch** using goroutines, reducing effort from 5 days to 30 mins.
    - \* Implemented **IAM roles** across **137 servers** to replace **AWS** credentials after security breach, enabling automatic key rotation.
- **Unique Identification Authority of India(UIDAI)** Jul 2023 - Sep 2024  
Bangalore  
*Software Developer - Ministry of Electronics and Information Technology*
  - **Manual Fraud Check Service**  
*Go, Kafka, Redis, MySQL, Docker, S3*
    - \* Built fraud detection microservice in **Go**, running **AI** model inference and processing **1,500+** biometric data entries per minute.
    - \* Optimized **MySQL** via composite indexing for sub-50ms cache-miss latency; validated 30% higher throughput via stress testing.
    - \* Architected **HSM**-encrypted biometric pipeline (**S3/Redis**) with 80% test coverage, ensuring secure, low-latency access.
    - \* Streamed **Kafka** fraud signals to automate 85% of Aadhaar de-duplication with guaranteed delivery via **E2E** integration tests.
  - **Operator Intervention Portal**  
*JavaScript, ReactJS, MUI, TailwindCSS, Keycloak*
    - \* Developed and **deployed** a portal from scratch for the operations team, which reduced manual querying workload by **75%**.
    - \* Added features to resubmit, prioritize, view history, and **biometrics** of packets; plotted 10+ business **KPIs** using charts.
    - \* Communicated technical workflows for non-technical stakeholders and reduced **DLQ** processing time from **30 to 5 days**.
    - \* Introduced packet tracker, accelerating operational efficiency by **40%** to support quicker issue resolution within 5 days.
  - **API-Gateway**  
*Kubernetes, Middleware, DevOps*
    - \* Released **Apache APISIX** API gateway on Kubernetes, creating manifest YAMLS to manage **9,000+** API requests daily.
    - \* Configured APISIX to add 10+ **routes** for the frontend and backend **upstream** of the Operator Intervention Portal.
    - \* Added authz-keycloak plugin for **token verification** from portal to active directory server in **three-legged authentication**.

## EDUCATION

**Indian Institute of Technology(IIT) Kanpur**  
Biological Sciences and Bioengineering

Bachelor of Technology  
Jul 2018 - May 2023

## PROJECTS

- **Shorten**  
*Go, Next.js, TailwindCSS, Groq AI, PostgreSQL, MinIO, Docker, Caddy, AWS EC2, AWS Polly, AWS ASG*
  - Developed a tool using **Go** and **Next.js** and **Groq AI**, to crawl webpages and generate structured markdown summaries.
  - Integrated **AWS Polly** via **WebSocket** to deliver Text-to-Speech and speechmarks with word-level **audio-visual highlighting**.
  - Orchestrated infra with **AWS ASG**, **Caddy**, and **Docker**; used PostgreSQL and Google Analytics for latency and traffic analysis.

## ACHIEVEMENTS

- Integrated Claude, Cursor, and Google Cloud into **SuperPlane**; Authored **merged PRs** enhancing AI-driven DevOps workflows.
- Secured a top 25% global ranking among 32,702 participants during the Google Code Jam 2022 international qualification round.