Rahul Sharma

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SKILLS

PROGRAMMING
Python • TypeScript • SQL • Ruby
Shell • C++

FRAMEWORKS
ReactJS • NextJS • Ruby on Rails
Django • FastApi • Celery • Sidekiq

DATABASES
MySQL • MongoDB • Redis
• ElasticSearch • DynamoDB

INFRA & TOOLS
AWS • Docker • Terraform • Elastic
• Kafka • LangChain • gRPC

PROJECTS

MULTI-AGENT QA TEAM
Architected a hierarchical team of AI agents that collaborate to perform end-to-end website exploration, automatically mapping user flows and generating Playwright tests.
Tech Stack: Python, AI/ML, Playwright, AWS

SAIL QUEST EXPLORER
Engineered a multi-agent AI query system for intuitive exploration of 1 lakh+ sales call transcripts, enhancing data-driven decision making.
Tech Stack: Python, AWS, Claude, OpenAi

SCALER BLOG INFRASTRUCTURE
Led development of blog infrastructure, increasing organic growth by 48% and reducing costs by 20%.
Tech Stack: AWS ECS, Docker, Infrastructure Management

EDUCATION

CHANDIGARH UNIVERSITY
B.Tech in Computer Science
Jun 2023 | Chandigarh, India
CGPA: 8.57 / 10.0

EXPERIENCE

HACKERRANK | Software Development Engineer II
Aug'25 - Present | Bengaluru, India
- Enhanced **mock interview platform** by implementing **editorial and test case injection** using **RAG** for intelligent prompt generation, improving overall candidate interview experience.

SCALER/INTERVIEWBIT | Software Development Engineer II
Jan'25 - Jul'25 (SDE 2) | Jun'23 – Dec'24 (SDE) | Jul'22 – Jun'23 (intern)

- Architected **DaddyQuest: Multi-tenant Orchestration Platform** for automated call/meeting analysis, featuring upload endpoints with metadata handling, **transcription service integration**, and post-analysis job processing with configurable UI for **prompt template management** and analytics dashboards for data consumption.
- Led development of **Sail Quest Analysis Pipeline**, for organization-wide data access, powering Business MIS, Automated WhtasApp Comms, BDA training modules, etc. with **1 lakh+ monthly calls analysis**.
- Engineered **Mimir: CRM x Redshift ETL Pipeline**, saving **$440 monthly** through custom in-house solution, implementing Kafka consumers for DML events and transformed data ingestion, successfully replacing Hevo with optimized in-house solution.
- Designed and implemented **Sail Quest API Microservice** in Python using **gRPC** protocol, and a **ROR gem** to go with it as a client, transforming legacy S3-based architecture into a scalable, distributed system.
- Led security enhancement initiative by **migrating production RDS** from unencrypted to **encrypted data at rest**, significantly improving data protection and security posture.
- Spearheaded and AWS account migration of about **22 accounts** to Ingram vendor **saving 14% per year in cost** along with compliance efforts, leading cloud infrastructure updates on AWS to achieve **ISO 27001, GDPR, and SOC 2 certifications**, ensuring regulatory compliance and enhancing customer trust.
- Developed **Sail Extension**, an AI-powered tool for **real-time call transcription** and analysis, generating **tailored sales strategies** and improving conversion rates by **10%** across verticals.
- Designed **Maxwell submissions infrastructure** with API gateway and ECS integration for streamlined submission processing.
- Contributed to the implementation of **MySQL upgrade** for the production database from 5.7 to 8.0, resulting in cost savings of over **$2500 per month**.
- Led **Lead Ranking System** project, implemented ML-based Lead Ranking system, boosting Lead to Payment conversion by **2%** for churned leads. **Adding in extra 70 lakhs in total revenue**.
- Implemented **DMS Pipeline for MySQL to Redshift Data Ingestion**. Integration and set up production read replica for analytics, improving data accessibility.
- Configured **Auto Scaling Groups (ASG)** for production instances along with shifting to **100 spot** instances, reducing cost by **80%** while keeping the same level of system reliability with proper **spot interruption alerts**.
- Involved in **cost optimisation** initiatives on the AWS front, saving **$4,300/month** through Reserved Instances, S3 tiering, and cleanups.
- Established Redshift Workload Management **(WLM) multi queue setup** for optimizing **query performance** and **decrease load** during peak hours.