

Gaurav Kumar

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in /deep-gaurav

Bengaluru, IN

Education

National Institute of Technology, Jaipur

B.Tech, Electronics and Communication

2018 – 2022

GPA - 7.9

Skills

- Languages: **Java, Python, C++**
- Databases: **MySQL, MongoDB, Clickhouse, ScyllaDB**
- **Spring, Microservices, Kafka, JPA, Elasticsearch**
- Testing: **Junit, Mockito, Jacoco, Sonarqube, Jmeter**
- Experience with **CI/CD, Kubernetes, Jenkins, Maven, GIT, Docker, Distributed Systems**
- **Design patterns, OOP concepts, System Design & Architecture, Algorithms**
- Caching Services: **Redis, Aerospike**
- Data Processing: **Pandas, Dask, Polars, Prefect, ETL**
- Observability & Monitoring: **Loki, New Relic, Grafana**
- Experience with **Node.js, React.js, Express.js, HTML, CSS, Javascript, jQuery**

Experience

IXIGO

June 2022 – Present

Software Engineer II, Platforms

Gurugram, IN

- Led the design and architecture of critical platform components and creation of scalable systems.
- Spearheaded architectural discussions to align technology stack with industry trends, resulting in a 25% increase in system stability and 30% improvement in overall performance.
- Fashioned a comprehensive bug resolution strategy for critical applications, resulting in a 12% decrease in system downtime and a 25% increase in team satisfaction scores.

Projects

Autocompleter

Java, SpringBoot, Mysql, Python, Elastic Search, Kafka

- Designed and engineered a top of the funnel microservices based autocomplete system for Trains, Flights and Bus searches, leveraging capabilities of Elasticsearch, elevating efficiency of search queries.
- Architected and executed a hierarchical location database, streamlining inventory additions in database and Elasticsearch. Real-time updates to Elasticsearch data, ensuring uninterrupted application performance with no downtime.
- Increased user experience on Ixigo with increased bookings by 40%, while up to 30% increase in the average transaction value.

Universal Nudge - In-App Notification Service

Drools, Java, ScyllaDB, Kafka, SpringBoot

- Devised a scalable service delivering personalized in-app notifications to users, triggered within a latency of 200-500ms post user action.
- Utilized Kafka for real-time ingestion of user data, and harnessed the Drools rules engine to intelligently determine appropriate nudge types based on predefined business logic. Stored generated nudges in a distributed ScyllaDB database. This is completed within 100 ms of event trigger
- Designed and exposed a flexible API empowering the product team to seamlessly configure and manage Drools-based rules for creating custom nudge types. Collaborated closely with stakeholders to ensure alignment with business objectives and deliver a frictionless user experience increasing the booking by 6%

Outlook Calendar

Java, Springboot, Clickhouse, ScyllaDB, Kafka

- Tailored a low latency and high throughput API for displaying daily cheap flight fares, including user-specific filters and an explore mode for discovering the cheapest destinations from a given origin.
- Engineered SEO-optimized features to generate low-cost flight options for each airline, significantly increasing web traffic by 16%.
- Achieved 20% reduction in response time and enhanced data processing efficiency by 10% through targeted performance optimizations.

Automating Reports

Python, Pandas, Dask, Polars, Clickhouse, Prefect

- Automated generation of various reports for Payment, CXP, and Finance LOBs, transitioning underlying database from MongoDB to ClickHouse. Furthermore, the reporting process was integrated into the Prefect workflow system, improving the monitoring capabilities and overall system efficiency.
- Reduced reports discrepancies by 100%. Additionally, improved report loading times, reducing from minutes to mere seconds saving different LOB's hours in report generation.