

# Raj Kishore sahni

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## EXPERIENCE

### Software Engineer -2

BigBasket

April 2023 - Present, India

- Implemented Kafka Delayed Retry Queue to enable delayed retries for event recovery in case of downstream API failures, achieving an impressive 90% reduction in failures.
- Refactored code for Multi-Tenant Architecture compatibility, enhancing API performance by 30% through concurrent execution via multithreading.
- Developed synchronous document creation APIs, adeptly managed high-traffic systems, optimized performance by 20%.
- Introduced a Fallback mechanism in BigBasket's reporting backbone service, utilizing graph algorithms for automatic database switching during report data capture from diverse data stores.
- Played a pivotal role in enhancing the user experience by actively contributing to the seamless end-to-end integration of React with Django microservices, writing multiple APIs, and optimizing performance while collaborating on frontend development and created a React-based UI from scratch.
- Successfully addressed prolonged processing times in the QR code generation API by implementing a callback mechanism and leveraging asynchronous methods, resulting in a substantial 98% reduction in failure rates.
- Implemented a self-healing system for a consumer deployment running on Kubernetes that ensures continuous availability. It smoothly updates credentials without causing much downtime, only restarting pods when connection issues confirm that credentials changed, thereby keeping the service running smoothly and resilient.

### Software Engineer -1

BigBasket

October 2021 - March 2023, Bangalore, India

- Revamped audit logging, transitioning from Django-based logs to a separate system, effectively reduced database load and enhancing performance.
- Audit logging yielded a 30% improvement in performance and data management. Able to free up 20% of database storage in the main database.
- Implemented a document creation flow using synchronous API for various document types using Java, Spring Boot, and Thymeleaf significantly improving API performance and CPU utilization by 20%.
- Implemented dynamic API-based retry counts, resulting in a 20% reduction in redundant retries, enhancing overall performance and reliability, while also showcasing proficiency in JUnit testing and code quality improvement within the microservice environment.
- Engaged in test-driven development, composing JUnit test cases to boost microservice code coverage by 60%.

## PROJECTS

### Chat Gpt Integration on Mysql database, Django Project

Personal

- Created a Django project integrating LangChain and OpenAI ChatGPT language models for enhanced database interaction.
- This powerful feature enabling users to effortlessly interact with databases using natural language queries.
- Enhanced performance and user experience by allowing users to ask questions in a natural language format.

### Email Spam Filter python|Flask

Personal

- Used Naive Bayes classifier to predict email spam with high accuracy.
- Trained model on a comprehensive dataset for effective spam detection.
- Tested on extremely large data.

## EDUCATION

### Bachelor of Technology

Minor in Information Technology • Maharaja Agrasen Institute of Technology • New Delhi, India • 2021

## SKILLS

Python, Java, Django, Spring boot, React, Javascript, Html, CSS, Docker, Kubernetes, Kafka, AWS, Low-Level Design, Kibana, Object Oriented Programming, Aerospike, New Relic