



Roshan Singh

Senior Engineer | Backend Developer

kumar.roshansingh89@gmail.com

9704240105

I'm a Senior Engineer with 4.5+ years of expertise in Java, Springboot, REST API integrations, and cloud technologies. Skilled in leading teams, optimizing data pipelines, and real-time integration. Committed to problem-solving and continuous growth.

WORK EXPERIENCE

Senior Engineer Caribou Technologies Pvt Ltd.

01/2019 - Present

Hyderabad, India

Creates Innovative IoT Products and Cloud Solutions

Achievements/Tasks

- Developed a Spring Boot microservice from inception, implementing the DAO structural design pattern to ensure a robust low-level abstraction for data access.
- Oversaw MQTT broker and client-side components, facilitating seamless device communication with the cloud server through subscription and publication mechanisms.
- Microservices: Orchestrated the creation of new REST APIs aligned with specific business requirements, while optimizing existing APIs for efficient device data processing.
- Leverages Kafka for data collection via a publish mechanism, followed by processing and storage in a relational database through Spring Boot cloud-based microservices. Additionally, utilizes the pub/sub mechanism for dynamic refresh in applications.
- Engineered a Windows PC application using Python, leveraging the libUsb library to interact with an integrated chip within a smart lock. This application effectively read, modified, and saved pertinent data.
- Collaborated on the seamless integration of REST APIs between microservices and frontend applications, as well as third-party applications.
- Automated project build and deployment with Jenkins: Built code from Bitbucket, saved Docker images in our registry, and deployed them via containerization.

EDUCATION

Master of Computer Application Osmania University

07/2016 - 06/2019

Hyderabad - India

Courses

- Computer Programming

Bachelor of Computer Application Sido Kanhu Murmu University

07/2012 - 06/2015

Jharkhand - India

Courses

- Computer Programming

SKILLS

Core Java

Java8

Python

Microservices

Spring Boot

Hibernate JPA

REST

Kafka

MQTT

Docker

Nginx

Jenkins

Maven

JWT

MongoDB

Postgres SQL

Confluence

GIT

PROJECTS

IoT Cloud Solution for Smart Locks (06/2019 - Present)

- A cloud-based solution for capturing data from smart devices and issuing remote instructions for lock/unlock operations.

IoT Cloud Solution for Smart Refrigerator (06/2019 - Present)

- A scalable cloud solution managing vast volumes of device data, orchestrating gateway operations such as triggering alarms for high temperatures, restocking alerts, and more. This solution is currently operational in a production environment.

Data Processing (Personal Project) (08/2022 - Present)

- Utilizes Kafka to capture temperature data, process it, and subsequently store it in a relational database.

School Billing System (Live Project for a School) (06/2018 - 09/2018)

- Developed a desktop application tailored for schools, facilitating efficient management and billing of tuition fees.

LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency