





Roshan Singh Senior Engineer | Backend Developer

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

O Senior Engineer Caribou Technolgies 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

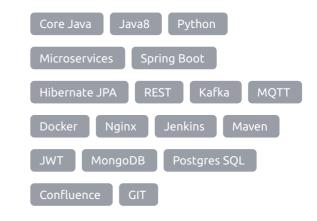
Bachelor of Computer ApplicationSido Kanhu Murmu University

07/2012 - 06/2015 Jharkhand - India

Courses

Computer Programming

SKILLS



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