

Raghvendra Pratap Singh

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Experience

The Scalers

May 2024 – Present

SDE-1 — Bangalore

- Designed and implemented scalable financial simulations using **Java**, **Spring Boot**, and **AWS**.
- Led the development of **microservices** architecture to optimize scalability and performance.
- Deployed **Dockerized** applications with **Kubernetes** for seamless orchestration.
- Collaborated with senior engineers to define technical strategies aligning with business goals.

Incedo Inc

June 2022 – Nov 2022

Software Engineer — Bangalore

- Wrote **JUnit** test cases ensuring high reliability and performance of **Spring Boot** apps.
- Enhanced backend systems with new features using **Java**, **Spring Boot**, **MySQL**, and Oracle DB.
- Built background verification system by integrating **Spring Boot APIs**.
- Developed automation scripts for CI/CD pipelines and cloud resource management.

Hinduja Global Solutions

Sept 2021 – May 2022

Associate Software Engineer — Bangalore

- Automated cloud-based applications reducing processing time by 50% via CI/CD pipelines.
- Utilized **Python** and unit tests to ensure stability of cloud applications.
- Contributed to building backend services and integrated **microservices** architecture.

Projects

Warehouse Optimization System

[GitHub Repo](#)

- Developed a backend system for warehouse operations using **Java 21**, **Spring Boot**.
- Implemented RESTful APIs for core warehousing operations.
- Utilized **Spring Data MongoDB** to manage warehouse-related data.
- Ensured code quality and API reliability using **JUnit** and **Mockito**.

Black-Scholes Option Pricing Model

- Designed a **Python-based** Black-Scholes model to accurately price European options.
- Allowed user input of parameters such as asset price, volatility, strike price, and interest rates.

Inventory Management System

- Developed a Spring Boot-based inventory system with RESTful APIs to manage products.
- Integrated **Hibernate ORM** for persistence and ensured data integrity.

Emotional Chat-Bot

- Built a chatbot using **Vader Sentiment Analysis** to analyze user emotions and respond accordingly.
- Designed a secure admin interface for tracking and analyzing sentiment-based interactions.

Education

MVJ College of Engineering, Bangalore

July 2017 – July 2021

B.E. in Computer Science Engineering

CGPA: 7.0

Skills

Languages: Java, Python, JavaScript, SQL

Frameworks: Spring Boot, React

Tools & Tech: AWS, Docker, Kubernetes, Git, GitHub, Kafka

Databases: MySQL, MongoDB

Core Competencies: Data Structures and Algorithms (DSA), Problem-Solving, OOP, Design Patterns