

# Harshit Raghuvanshi

Software Development Engineer   @ rharshit98@gmail.com   +91 9969817450   in /in/Harshit-Raghuvanshi   /rharshit

Software Development Engineer with nearly 5 years of experience specializing in building and optimizing scalable backend systems with Java, Spring Boot, and other technologies. Proven ability to enhance application performance, evidenced by reducing login times by 80% and accelerating data calculations by 60%. Eager to apply expertise in microservices architecture and security to solve complex engineering challenges.

## Work Experience

### Cisco Systems (India) Pvt. Ltd.

#### SDE II & Partner Security Architect

November 2021 - November 2024   Bangalore, Karnataka, India

- Lead developer and subject matter expert in Rebate Engine tool, and a founding member in NextGen Rebate Engine Platform.
- Strengthened security posture for a portfolio of 9 applications by identifying and remediating all critical vulnerabilities.
- Developed a multi-threaded workflow to reduce login time by 80%.
- Deployed load-sharing servers to speed up the rebate calculations.
- Co-designed the NextGen Rebate Engine platform architecture.
- Built a React app to serve as UI to the NextGen Platform.
- Designed and implemented dynamic Lucene queries to create and read indexes faster and speed up rebate re-calculations by upto 60%.

#### SDE I

August 2020 - October 2021   Bangalore, Karnataka, India

- Developed and maintained a core Spring Boot application, delivering robust RESTful APIs for key business functionalities.
- Developed and implemented a Java-based audit-log framework, and owned the implementation of primary business logic for the application, translating complex requirements into functional code.
- Integrated OAuth 2.0 flow, access management, database pool-manager, error handling, actuators, and Swagger into the application platform.
- Created and managed CI/CD pipelines using Jenkins.

#### SDE - Intern

January 2020 - June 2020   Bangalore, Karnataka, India

- Developed a POC application by merging different frameworks like Struts, Spring and AngularJS, optimizing, refactoring and cleaning the legacy code.
- Built custom cache management and logging framework.

### Janitri Innovations Pvt. Ltd.

#### Software Engineer and Image Processing Intern

May 2019 - July 2019   Bangalore, Karnataka, India

- Built a custom image processing algorithm using OpenCV to clean the images and process them in batches for optimal throughput.
- Developed Android app using MVVM architecture for the end user.
- Added multi-threading to increase the throughput by upto 8x.

## Education

### Manipal Institute of Technology

#### B.Tech in Computer and Communication Engineering   7.84 CGPA

August 2016 - August 2020   Manipal, Karnataka, India

- Courses: Object Oriented Programming, Data Structures, TCP/IP, OS, Database, Software Design, Parallel Programming, Data Mining

## Achievements

#### ICPC Regionals

- Rank 36 in ICPC Kharagpur region, 2018
- Rank 46 in ICPC Kolkata-Kanpur region, 2018

## Skills

Languages: Java, Python, C++, SQL, TypeScript  
Frameworks & Libraries: Spring Boot, React, Angular, Node.js, OpenCV, Bash

Tools & Technologies: Docker, Kubernetes, Jenkins, Spinnaker, Maven, Git, Spinnaker, MongoDB

## Projects

#### Ticker   Automating trading algorithms

Apr 2021 - Current

- Built event-driven suite of microservices to fetch, store, and process algorithms on real-time stock market data.
- Optimized for low latency and high throughput.
- Inter-service communication using RESTful API.
- Used relational (MySQL) database to store data.
- Microservices built with Spring boot.
- Designed and implemented task executors to manage processing threads.

#### CarSync   Jan 2024 - Feb 2024

- Developed a data aggregation service using Spring Boot to ingest used car data from multiple clients, and store in MongoDB cluster.
- Built a React frontend, enabling users to efficiently filter and search the dataset.

#### XDA Developers   Open source projects

May 2013 - Feb 2015

- Developed Android operating system based on Android Open Source Project (AOSP).
- Contributed to Open Source projects like CyanogenMod and LineageOS.

## Other Projects

#### Wind Down   Jan 2019 - Apr 2019

- Developed an Android application that replicated core phone functionalities, demonstrating deep knowledge of Android OS and SDK.

#### Fitness Tracker   Oct 2018 - Nov 2018

- JavaFX and MySQL project to track calories.

#### HandGest Drone   Feb 2017

- Created OpenCV app to track and send hand gestures to control drone.

## Other positions of Responsibility

#### IECSE and TechTatva

2016-2019   Manipal

- Vice-Chairperson for IECSE, the university's largest technical club, where I mentored committees and organized developer workshops.
- Led multiple technical events during the TechTatva college festival.