

Harshit Raghuvanshi

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Software Developer Engineer with 5 years of experience in architecting and building high-performance, scalable backend systems and microservices using 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
- Led the end-to-end development for the Rebate Engine tool as the subject matter expert, owning the complete project lifecycle.
 - Served as a **founding engineer** on the 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%.
 - Designed and scaled the rebate calculation service by deploying **load-sharing** servers, significantly improving system throughput.
 - Co-designed the microservices architecture for the NextGen Rebate Engine, defining data models, service boundaries, and API contracts.
 - 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
- Developed and maintained a core **Spring Boot** application, delivering robust **RESTful APIs** for key business functionalities.
 - Architected and delivered a reusable, platform-wide audit-log framework in Java, establishing a standardized auditing solution.
 - 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
- Developed a POC application by merging frameworks like **Struts**, **Spring** and **AngularJS**, optimizing and refactoring the legacy code.
 - Built custom cache management and logging framework.

Janitri Innovations Pvt. Ltd.

- Software Engineer and Image Processing Intern** May 2019 - July 2019
- 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
Tools & Technologies: Docker, Kubernetes, Jenkins, Spinnaker, Maven, Git, 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**.
 - Designed the relational database schema in **MySQL** and utilized **Spring Data JPA** for efficient and secure data persistence and retrieval.
 - 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.
 - Engineered a dynamic, auto-scaling thread pool for the ingestion pipeline, optimizing resource utilization and throughput based on data volume and API response times.
- 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 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.