Harshit Raghuvanshi

Software Development Engineer

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Senior Software Engineer with over four years of experience at Cisco, specializing in architecting and scaling high-throughput microservices in Java and Spring Boot. Proven expertise in reducing system latency by up to 80% and designing secure, resilient backend platforms for business-critical financial applications.

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.
- Led a security overhaul across a 9 applications, eliminating 100% of PO/P1 vulnerabilities and achieving a 90% vulnerability reduction.
- 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 NextGen Rebate Engine architecture, 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, databse 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

Other positions of Responsibility

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.

Skills

Languages: Java, Python, TypeScript, SQL, C++ Frameworks & Libraries: Spring Boot, React, Angular, Node.js, OpenCV, Android Framework Tools & Technologies: Git, Gerrit, Jenkins, Spinnaker, Maven, Docker, MongoDB

Projects

Ticker 🛗 Apr 2021 - Current

Custom-built platform for algo-trading.

- 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 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.

- 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.

- Contributed to AOSP derived Open Source projects like CyanogenMod and LineageOS.
- Developed custom Android ROMs focused on enhancing user experience by adding features to framework's SystemUI. %%
- Designed a script to leverage vendor partition to tackle storage limitation on legacy devices.
- Shrank the system image footprint by building a resource optimization pipeline that utilized drawable compression and asset removal.
- Co-developed device tree for Android One.
- Actively maintained a portfolio of AOSP based projects on XDA Developers. %%%%

Achievements

ICPC Regionals

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