## Harshit Raghuvanshi

**Software Development Engineer** 

@ rharshit98@gmail.com

**\** +91 9969817450

in /in/Harshit-Raghuvanshi

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## **Work Experience**

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

#### **Partner Security Architect**

## June 2023 - November 2024

Pangalore, Karnataka, India

- Maintained security posture of all applications in the portfolio.
- Fixed all critical security issues and developed a pipeline to create Docker images periodically with updated security fixes.

#### **SDE II**

Movember 2021 - November 2024

Pangalore, Karnataka, India

- Lead developer and subject matter expert in Rebate Engine tool, and a founding member in NextGen Rebate Engine Platform.
- Developed a multi-threaded workflow to reduce login time by 80%.
- Deployed load-sharing servers to speed up the rebate calculations.
- Collaborated to design the architecture of the NextGen application.
- 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

- Pangalore, Karnataka, India
- Created and maintained Spring boot application with RESTful services.
- Developed and implemented a Java-based audit-log framework, and implemented majority of the business logic in the application.
- 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**

Pangalore, 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

Pangalore, 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**

Well versed: Java, Python, C++, React, TypeScript,

SQL, Bash, Docker

Familiar: React, Angular, Node, Android

Tools used: Maven, Node, Git, OpenCV, Gradle,

Jenkins, Spinnaker, Kubernetes

## **Projects**

**Ticker** Automating trading algorithms

Apr 2021 - Current

- Built event-driven suite of microservices to fetch, store, and process real-time stock market data.
- Optimized for low latency and high throughput.
- Used MySQL database to store data.

  Missassa halibase to store data.

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- Microservices built with Spring boot.
- Designed and implemented task executors to manage processing threads.
- Optimized to store data in near real-time.

**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** Vice-Chairperson

**2016-2019** 

- Lead largest technical club of the university.
- Managed sponsorships and events and mentored working and managing committees.
- Organized Google Developer Group, data structures, and other workshops.

TechTatva Event head

 Event heads of multiple technical and nontechnical events in college tech fest.

## **Other Projects**

- Developed **Spring boot** application to fetch and store used car data from multiple clients.
- Stored data in MongoDB cluster and used React webapp to filter data.

• Implement basic functionalities of a phone in an Android app.

Fitness Tracker 🛗 Oct 2018 - Nov 2018

JavaFX and MySQL project to track calories.

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