

# Harshit Raghuvanshi

Software Development Engineer

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## Work Experience

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

#### Partner Security Architect

June 2023 - Current

Bangalore, Karnataka, India

- Scaled up to take the additional role of PSA, accountable for the security posture of all applications in our team.
- Developed a script to create **Docker** images periodically with updated libraries, to fix image security across teams.

#### SDE II

November 2021 - Current

Bangalore, Karnataka, India

- Lead developer and subject matter expert in Rebate Engine tool, and founding member in NextGen Rebate Engine.
- Implemented **multi-threading** in PPE app to reduce the login time by 80%.
- Set up a new server instance to share load for rebate calculations.
- Collaborated to design solutions for multiple use cases in NextGen.
- Created a **React** app from scratch to serve as UI for NextGen Platform.

#### SDE I

August 2020 - October 2021

Bangalore, Karnataka, India

- Created and maintained **Spring boot** application with RESTful services
- Developed audit log framework, level, geography, and rule framework.
- Implemented **OAuth 2.0** flow, user access management, database pool manager, error handling, actuators, Swagger.
- 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** on **OpenCV** to clean the images and process them in batches for optimal throughput.
- Developed **Android app** using **MVVM** architecture for the end user.
- Optimized and handled resources to increase throughput by up to 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

## Projects

#### Ticker Automating trading algorithms

Apr 2021 - Current

- Built multiple **microservices** to fetch, store, and process real-time stock market data.
- Designed and implemented end to end.
- Used **MySQL** database to store data.
- 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**.

## Technologies

Well versed: Java, Python, C++, React, TypeScript, Android, SQL, Bash, Docker

Familiar: TypeScript, Angular, Bash, Android

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

## 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 non-technical events in college tech fest.

## Other Projects

#### Wind Down Jan 2019 - Apr 2019

- Implement basic functionalities of a phone in an **Android app**.

#### 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.