Harshit Raghuvanshi

Software Development Engineer
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Work Experience

Cisco Systems (India) Pvt. Ltd.

Partner Security Architect
📅 June 2023 - November 2024   📍 Bangalore, 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
📅 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.
- 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   📍 Bangalore, 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
📅 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

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.
- 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 non-technical events in college tech fest.

Other Projects

CarSync   📅 Jan 2024 - Feb 2024
- 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.

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.