

# Raghu Raj Sodani

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## SUMMARY

Computer Science graduate with 2.5+ years building high-performance, scalable infrastructure services for distributed systems serving 100K+ users. Strong fundamentals in data structures, algorithms, and systems design (Codechef 5 star). Proficient in Java with systems programming experience on Linux platforms. Proven ability to take ownership from design to deployment and solve complex technical problems.

## TECHNICAL SKILLS

**Programming Languages:** Java, C++, Python, JavaScript, TypeScript, SQL

**Systems & Infrastructure:** Linux/Unix, Distributed Systems, System Monitoring, Performance Optimization

**Backend & Frameworks:** Java, Spring/SpringBoot, REST APIs, GraphQL, Microservices

**Databases & Storage:** PostgreSQL, MongoDB, MySQL, DynamoDB, Database Design

**Cloud & Tools:** AWS (Lambda, RDS, S3, DynamoDB), Docker, Git, Jenkins, CI/CD

**Core Strengths:** Data Structures, Algorithms, Problem Solving, Debugging, System Design

## EXPERIENCE

### Software Development Engineer

May 2024 – Present

Hyderabad, India

Amazon

- Designed, developed and deployed high-performance infrastructure service for customer systems serving 100K+ daily users across distributed cloud platforms with focus on scalability, reliability and resilience
- Architected data pipeline infrastructure from DynamoDB to Data Lake with transformation and validation layers, implementing efficient algorithms for data integrity and performance optimization in Linux environment
- Developed and operationalized cluster monitoring and health system using Java Spring backend, diagnosing and resolving complex distributed system problems with advanced debugging techniques
- Led system-level JDK17 migration across 28 packages, assessing reliability of Java stack and creating enhanced error handling mechanisms, demonstrating strong ownership from design to deployment

### Software Development Engineer

Nov 2023 – May 2024

Hyderabad, India

MAQ Software

- Developed enterprise-grade infrastructure for scalable application platform, focusing on system performance and reliability
- Optimized system performance by 30% through efficient data structure implementation, algorithm optimization, and low-level performance tuning on Linux systems
- Debugged complex system-level issues and resolved problems in production environments

### Software Development Engineer Intern

Jan 2023 – Jun 2023

Remote

Amazon - CS Stores Fixed Corporate

- Developed backend infrastructure services with Java Spring framework, working on Linux platforms
- Built system components with focus on performance, implementing efficient algorithms and data structures
- Collaborated on design and implementation of distributed system features from requirements to deployment

## PROJECTS

### ISRO Safe Ship Navigation System | Python, PostgreSQL, Graph Algorithms

2022

- Designed and implemented high-performance navigation system with complex graph-based pathfinding algorithms optimized for space and time complexity, utilizing geo-spatial data processing

## EDUCATION

### Indian Institute of Information Technology, Vadodara

Vadodara, India

Bachelor of Technology in Computer Science & Engineering, CPI: 8.1/10

Aug 2019 – May 2023

## TECHNICAL EXCELLENCE & PROBLEM SOLVING

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- **Codechef 5 Star** (Rating: 2040) - Top 0.5% globally, expert-level data structures and algorithms knowledge with strong problem-solving abilities demonstrated through competitive programming
- **INMO 2019 Scholar** - Indian National Mathematics Olympiad, strong CS fundamentals and complex problem-solving
- **Published Research** - Optimization algorithms paper at IDAMS 2022, Springer Lecture Notes, demonstrating research ability in algorithmic optimization