

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

Amazon

May 2024 – Present

Hyderabad, India

- 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

MAQ Software

Nov 2023 – May 2024

Hyderabad, India

- 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

Amazon - CS Stores Fixed Corporate

Jan 2023 – Jun 2023

Remote

- 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

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

Vadodara, India

Aug 2019 – May 2023

TECHNICAL EXCELLENCE & PROBLEM SOLVING

- **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