

Raghu Raj Sodani

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SUMMARY

Software engineer with 4+ years building and optimizing database-backed distributed systems serving 100K+ users. Strong expertise in PostgreSQL, MongoDB, DynamoDB with hands-on experience in query optimization (30-40% performance improvements), data pipeline design, and high-availability architecture (99.9% uptime). Proven track record in troubleshooting database issues, implementing monitoring solutions, and automating operational workflows. Comfortable working on multiple dynamic projects while collaborating with cross-functional teams.

TECHNICAL SKILLS

Databases: PostgreSQL, MongoDB, DynamoDB (NoSQL), MySQL basics, SQL query optimization, Indexing, Schema design
Database Operations: Performance tuning, Query optimization, Backup/recovery strategies, Data migration, Replication
Programming & Scripting: Python, Java, JavaScript, TypeScript, Shell scripting, Automation
Infrastructure & Cloud: AWS (RDS, DynamoDB, S3, Lambda, EC2), Infrastructure as Code (AWS CDK), Linux/Unix administration
DevOps & Monitoring: Docker, CI/CD (GitHub Actions), CloudWatch monitoring, System health tracking, Incident response

EXPERIENCE

Software Development Engineer May 2024 – Present
Amazon
Hyderabad, India

- Designed and optimized data pipeline for DynamoDB-to-Data Lake transfer handling millions of records, implementing automated validation, transformation logic, and data quality checks ensuring 99.9% reliability
- Optimized database interactions for customer service platform serving 100K+ daily users—implemented connection pooling, query optimization, and caching strategies reducing database load by 40%
- Troubleshoot and resolved database performance issues including slow queries, connection leaks, and lock contention—implemented monitoring alerts with CloudWatch for proactive issue detection
- Collaborated with database architects and application teams on schema design, indexing strategies, and capacity planning for high-traffic systems
- Automated database deployment workflows integrating with CI/CD pipelines for schema migrations and rollback procedures

Software Development Engineer Nov 2023 – May 2024
MAQ Software
Hyderabad, India

- Optimized large-scale database queries reducing execution time by 30% through index optimization, query rewriting, and database schema refinements
- Implemented database backup and recovery procedures for production systems ensuring business continuity and disaster recovery compliance
- Monitored database health metrics, identified performance bottlenecks, and tuned database configuration parameters improving overall system efficiency

Software Development Engineer Intern Jan 2023 – Jun 2023
Amazon
Hyderabad, India

- Developed database-backed microservices with PostgreSQL and GraphQL reducing API latency by 40% through efficient query design and database connection management
- Implemented database access controls, role-based permissions, and query validation ensuring data security and compliance

Database Project - ISRO Maritime System 2022
Python, Django, PostgreSQL
Remote

- Designed and implemented PostgreSQL database schema for geospatial data handling millions of maritime records—optimized spatial queries and indexes for real-time route calculation
- Built automated backup scripts and database maintenance procedures ensuring data integrity and system reliability

EDUCATION

Indian Institute of Information Technology, Vadodara Aug 2019 – May 2023
B.Tech in Computer Science & Engineering, GPA: 8.1/10

KEY STRENGTHS

- Performance Optimization:** Proven 30-40% database performance improvements through query optimization and indexing
- CodeChef 5-Star** (Top 0.5%): Strong problem-solving—ability to quickly pick up new technologies and navigate complex challenges