Raghu Raj Sodani

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Experience

Software Development Engineer   May 2024 - now
Amazon – Identity Services / CS Stores Fixed Corporate

- Architected and implemented data pipeline for transferring data from DynamoDB to Amazon Data Lake, incorporating transformation and data correctness validation layers to ensure data integrity across distributed systems serving 100K+ daily users
- Designed and developed Spring-based backend services with GraphQL API layer, implementing complex schema designs and query optimization to serve 10K+ global customers daily with low-latency data retrieval
- Led JDK17 migration campaign across 28 packages, performing thorough code reviews, debugging compatibility issues, and ensuring adherence to software engineering best practices across cross-functional teams

Software Development Engineer   Nov 2023 - May 2024
MAQ Software

- Engineered backend migration of FasttrackBI Portal from legacy .NET Framework to .NET 7, redesigning data access layers and implementing robust error handling for enterprise-scale reporting system
- Optimized database query performance by 30% through algorithmic improvements, indexing strategies, and efficient data loading mechanisms for large-scale data processing operations

Software Development Engineer Intern   January 2023 - June 2023
Amazon – CS Stores Fixed Corporate

- Developed Spring-based RESTful APIs and GraphQL query resolvers, implementing efficient data layer integration patterns that significantly reduced backend latency and improved system throughput
- Built scalable backend services handling file uploads and metadata management, implementing robust validation and error handling for high-reliability customer-facing features

Projects

ISRO Safe Ship Nav | *Python, Django-RestAPI, PostgreSQL*

- Implemented graph-based pathfinding algorithms using advanced data structures to process geo-spatial datasets, optimizing for computational complexity and query performance in maritime navigation system

Education

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

Publications

Raghu R., Novarun D., Swasti K. et al. *An Optimization Ontology for Goal Modelling Frameworks* (Accepted at IDAMS, 2022).

Skills

Languages: C++, Java, Python, SQL
Frameworks: Spring/SpringBoot, JUnit, Mockito, Django REST Framework

Cloud: AWS DynamoDB, AWS S3, AWS Lambda, AWS RDS

Databases: SQL, PostgreSQL, MongoDB, DynamoDB, GraphQL

Other Skills: Data Structures, Algorithm Design, Debugging, Performance Optimization, System Design, Code Reviews, Linux

Achievements

- **INMO 2019 Scholar** – Indian National Mathematics Olympiad
- **FileCoin** track winners of Hackathon organised by Devfolio
- **Codechef: 5 star** (max rating 2040) – Demonstrates strong algorithmic and problem-solving skills