Dharmaraj R

Software Engineer — 3+ years experience

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PROFESSIONAL SUMMARY

Backend Engineer focused on building scalable, event-driven microservices using Java, Spring Boot, Kafka, and Redis. Skilled in API design, caching strategies, and distributed system optimization to ensure performance and reliability.

TECHNICAL SKILLS

Languages & Frameworks: Java • JavaScript • Spring Boot • Spring Data JPA • Node.js • REST APIs
Cloud & Infrastructure: PostgreSQL • Redis • Kafka • AWS (S3)
Architecture & Design: Microservices • Distributed Systems • Event-Driven Architecture
Core Concepts: Data Structures & Algorithms • OOPS • Design Patterns • Multithreading

EXPERIENCE

Member Technical Staff   May 2022 – Present
Zoho Corporation   Chennai, Tamil Nadu

- Spearheaded a **static code analysis platform** adopted across **14+ Zoho products** and integrated into CI/CD pipelines, eliminating **6,000+** unused methods and reducing technical debt by **30%**, enhancing code maintainability.
- Refactored the Zoho CRM codebase, removing **1,680+ dead code fragments**, reducing bundle size by **12%**, and improving key page load time from **4s → 2.8s (30% faster)**, enhancing the user experience.
- Engineered a backend service to handle **millions of metadata records** and **3,000+ concurrent users**, achieving **sub-second response times** through connection pooling and efficient database queries.
- Reduced API latency by **60% (500ms → 180ms)** using **Redis caching, Kafka-based async processing**, and **advanced SQL optimizations**, significantly improving service SLAs and overall system throughput.

Project Trainee   Feb 2022 – May 2022
Zoho Corporation   Chennai, Tamil Nadu

- Developed a proof-of-concept for a static code analysis platform leveraging Node.js, AST parsing, and modular architecture to identify unused and redundant JavaScript methods across the Zoho CRM codebase.
- Implemented an AST-based parsing pipeline and architected a **PostgreSQL schema** with **indexes, materialized views, and partitioning** for high-performance querying, scalability, and data retrieval optimization.

PROJECTS

CollabGen (*Spring Boot, Redis, PostgreSQL, Stripe, WebSocket, React.js, AWS S3*)   [GitHub Link](#)

- Developed a **SaaS-based multi-tenant collaboration platform** with feeds, chat, tasks, and team management, leveraging **Spring Security and JWT** for secure and scalable architecture.
- Implemented **real-time messaging, scheduling, and presence services** using **WebSocket** and **Redis Sorted Sets**, supporting instant DM & group chats, online/offline tracking, and time-based post delivery.
- Improved system throughput by **Redis caching, query optimization,** and **connection pooling**, achieving **3× faster data retrieval**, lower latency, and reduced DB load across chat, feeds, and task modules.
- Integrated **Stripe** for subscription management (recurring payments, automated billing, webhook-driven updates) and **AWS S3** for secure file storage with fine-grained access control (private, team, org-level).

EDUCATION

V.S.B Engineering College   Karur, Tamil Nadu
Bachelor of Engineering — CGPA: 8.24/10   Aug 2018 – May 2022

ACHIEVEMENTS

- Achieved a **top 100 rank in India** in the HackWithInfy coding contest, demonstrating strong problem-solving skills.
- Secured **2274/43,000 rank** in LeetCode Weekly Contest 437, showcasing efficient use of data structures & algorithms.
- Solved **870+ problems on LeetCode** with a **280+ day streak**, reflecting consistent problem-solving discipline.