

# Dharmaraj R

Backend Engineer — 3+ years experience

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## PROFESSIONAL SUMMARY

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Backend Engineer with experience in designing scalable and distributed systems, including optimizing RESTful APIs and architecting database schema. Skilled in delivering high-performance, low-latency solutions, with experience in multi-tenant design, microservices, and real-time messaging, along with hands-on skills in front-end technologies.

## TECHNICAL SKILLS

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**Programming Languages:** Java • JavaScript • SQL

**Backend Frameworks:** Spring Boot • Spring Data JPA • Node.js • REST APIs

**Architecture & Design:** Microservices • Distributed Systems • Event-Driven Architecture

**Frontend Technologies:** React.js • Redux (Redux Toolkit) • Handlebars.js • HTML • CSS

**Cloud & Infrastructure:** AWS (S3) • PostgreSQL • Redis • Kafka

**Core Concepts:** Data Structures & Algorithms • OOPS • Design Patterns • Multithreading

## EXPERIENCE

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### Member Technical Staff

*Zoho Corporation*

May 2022 – Present

Chennai, Tamil Nadu

- Spearheaded development of **Shredder**, a static analysis platform adopted across **14+ Zoho products**, eliminating **6,000+ unused JavaScript methods** and reducing technical debt by **30%**.
- Refactored ZohoCRM codebase by removing **1,680+ dead code fragments**, reducing bundle size by **19MB** and improving page load time by **30%**, enhancing customer experience.
- Engineered high-performance backend services in **Node.js + PostgreSQL**, efficiently processing millions of metadata records with sub-second response times under heavy concurrent workloads.
- Reduced API latency by **60%** using **Redis caching**, **Kafka-based asynchronous processing**, and advanced SQL optimizations, lowering database load and improving SLAs.
- Integrated Shredder into CI/CD pipelines, accelerating release cycles, boosting early bug detection, and significantly increasing overall developer productivity by **40%**.
- Optimized analytics reporting with **indexes**, **materialized views**, **partitioning**, and query caching, reducing report runtimes from minutes to seconds.

## PROJECTS

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### 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, scalable architecture.
- Implemented **real-time messaging** (DM & Groups) using **WebSocket, Redis Pub/Sub, and connection registry**, supporting **5K+ concurrent users** with role-based permissions.
- Enhanced performance across chat, feeds and other features by **Redis caching** and optimized SQL queries, achieving **3x faster data retrieval**, faster API responses and reduced database load.
- Streamlined subscription management by leveraging **Stripe** to enable recurring payments, automated billing, and webhook-driven updates for multiple tiers.
- Integrated **AWS S3** for secure file storage with fine-grained access controls (private, team, organization).

## EDUCATION

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### V.S.B Engineering College

Bachelor of Engineering — CGPA: 8.24/10

Karur, Tamil Nadu

Aug 2018 – May 2022

## ACHIEVEMENTS

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- 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.