

# THUSHAR R. P.

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## SUMMARY

- Software Engineer with **3+ years** of experience, with a proven track record in resilient Software Development and collaboration. Significant contributions to a distributed Spring Boot(Java) microservice, responsible for managing data for over **15M+** patients.

## SKILLS

Languages	Java, SQL (Postgres), JavaScript
Technologies	Spring Boot, RabbitMQ, Redis, Docker, VueJs, JUnit, Mockito
Expertise	Microservices, Full-Stack Dev (Backend Heavy)

## EXPERIENCE

Everwell Health Solutions Pvt. Ltd

### Software Engineer 2 (SE-2)

Mar 2024 - Present

- Contract Management Microservice:** Key developer in the contract management system for district-level NGOs. Designed and implemented KPI evaluation using the **MVEL parser rule engine** and **Chain of Responsibility** pattern. Used the **Factory pattern** to link KPIs to contract types dynamically. A monthly job aggregated data from multiple microservices, assessed NGO performance, and generated accurate invoices. The system supports the enrollment of **~5k patients** daily, enhancing operational efficiency.
- Map-Clustering Solution with Machine Learning:** Engineered a robust map-clustering system using **K-Means** and **DBSCAN algorithms** to analyze geospatial data, enhancing decision-making. Refined features through iterative testing and validated outcomes with silhouette scores for optimal clustering performance.

### Software Engineer 1 (SE-1)

Aug 2021 - Mar 2024

- DBT (Direct Benefit Transfer) Microservice:** Played a key part in developing the microservice. Migrated functionality from a C# monolith to a **Java-based microservice** with dual database connections (MSSQL, PostgreSQL). Utilized JobRunr for efficient execution of **70K+ patient benefits per hour** using Elasticsearch for patient information retrieval. This system processes total payments of **20+ Cr per year** to patients, significantly improving efficiency and scalability.
- Microservices Migration:** Key developer in a project migrating a .NET monolith to microservices architecture using Vue.js 2, **Spring Boot**, and **PostgreSQL**, resulting in a **20% improvement in p95** latency and significant cost reduction by eliminating MS-SQL dependencies.
- Form Builder:** Independently developed a **drag-and-drop form builder** leveraging **Vue 2** for the front end and **Spring Boot** for the back end. Enabled real-time form customization and replication, adopted company-wide for internal projects.
- ETL Replication:** Developed effective migration strategies using the ETL process to transfer over 12M+ rows from SQL Server to PostgreSQL database using PySpark.

## EDUCATION

Bapuji Institute of Engineering and Technology, Davanagere, Karnataka  
**B.E. (Electronics And Communication)**

2015 - 2019

## ACHIEVEMENTS

- Optimized the cost of the data center by eliminating the .NET and SQL server dependency and switched to Java Microservice Architecture.
- Received multiple value awards for unwavering dedication to users and timely project completion.