# Likhith Raju P

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## Professional Summary

Backend Engineer who owns **Java/Spring Boot** services end to end, from requirements to production. Hands-on with **race conditions, distributed locking, queue-based asynchronous processing (RabbitMQ, Kafka) and failure handling** on **PostgreSQL and Redis**.

## Technical Skills

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| **Languages** | Java, SQL, Python |
| **Backend** | Spring Boot, Spring MVC, JPA/Hibernate, REST APIs, Microservices, Kafka, RabbitMQ, Distributed Systems |
| **Databases** | PostgreSQL, MySQL, Redis |
| **Tools** | Docker, AWS , JUnit, Grafana k6 (load testing), Prometheus, Grafana |

## Experience

**Associate Software Developer** **Feb 2026 – Present**
*Webknot Technologies* *Bengaluru, Karnataka*

- Owned the company's **HR and performance management platform** end to end as the sole engineer: gathered requirements from **HR and the leadership team**, aligned both on a written specification, then designed the **architecture, schema, role-based access** and performance-rating model.
- **Load-tested** the APIs with concurrent virtual users, tracking **p95 latency** rather than averages, and tuned queries and schema before rollout; **deployed it with Docker**, and it now runs the company's live review cycles.
- Built the **support-ticket backend** for the Cenomi Malls (Saudi Arabia) tenant platform serving **10,000+ users**, moving **SLA-breach detection** off the request path into a **RabbitMQ consumer** so overdue tickets are flagged even when no user touches them.
- Made that consumer safe to **scale horizontally**: each ticket is processed under a **Redis distributed lock**, so parallel instances never escalate the same ticket twice; in production it has processed **close to 5,000 tickets** and caught **500+ SLA breaches**.
- Traced slow endpoints in production to an **N+1 query problem** and fixed it with **JOIN FETCH**, loading related entities in one query instead of one per row; added a **circuit breaker** on latency-prone endpoints so a slow call fails fast instead of holding up request threads.

**Full Stack Developer Intern** **Feb 2025 – Jul 2025**
*Mphasis Limited* *Bengaluru, Karnataka*

- Designed and built an **internal API code-generation tool** to automate CRUD endpoint boilerplate, reducing **API development time by 93%** and streamlining backend engineering workflows.

## Projects

**Ticket Booking Backend with Concurrency-Safe Reservations** *(Java, Spring Boot, PostgreSQL)* *Github*

- Designed the booking path around one invariant, **a seat is sold at most once**: reservations take **row-level locks** inside a transaction so competing requests wait instead of racing, and a **unique constraint** makes the database reject a double booking even if a code path skips the lock.
- Verified behaviour under contention with **Grafana k6**, sending simultaneous requests for the same seats and confirming that exactly one booking succeeds per seat.

**Event-Driven Video Transcoding and Streaming Service** *(Spring Boot, Kafka, FFmpeg, AWS S3)* *Github*

- Separated upload from transcoding with **Kafka**: the upload service only publishes an event, and transcoding workers consume it to produce **multi-resolution HLS** output with FFmpeg, so uploads stay fast and workers scale independently.
- Handled failure explicitly: failed transcodes are **retried automatically** and processing is **idempotent**, so a redelivered event never produces duplicate or corrupted segments.

## Achievements

- **39th Rank / 2590 candidates — CRED Backend Hiring Challenge 2026** (**Top 2% globally**)
- **LeetCode rating 1794** (400+ problems, global rank 632 in Weekly Contest 470) | **CodeChef 3 Star**

## Education

**RNS Institute of Technology** **Dec 2021 – Jul 2025**
*B.E in Information Science and Engineering (CGPA: 8.9/10.0)* *Bengaluru, Karnataka*