

# Prateek Kumar

Senior Software Engineer with **over 6 years** of experience

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## Skills:

- **Tech Stack:** Java, Python, MySQL, Redis, Kafka, Elastic Search, Docker, Kubernetes
- **Experience:** Spring boot, Flask, AWS(EC2, Lambda, S3, RDS, SQS, etc)
- **Soft Skills:** Leadership, Teamwork, Problem Solving, Creativity, Time Management, Attention to Detail

## Work Experience:

### Maventech Labs Private Limited

Bengaluru, India

Senior Software Engineer

Sep 2021 - Present

- Developed and implemented a real-time **GPS tracking system** to provide live bus location updates to users, leveraging **Apache Kafka** for high-throughput data streaming, integrating **GPS vendor APIs** for accurate location data, and optimizing data storage with **Elasticsearch** for rapid querying and retrieval.
- Additionally, integrated **Google Maps API** to visually plot and display live bus locations on an interactive map, ensuring seamless user experience and real-time tracking.
- Designed and developed the **backend architecture** and **low-level design** for a **coin-based reward** system on a bus travel platform, boosting customer engagement and retention, and contributing to a **30% increase** in repeat bookings.
- Led the integration of a **global QR payment system** across all company products, designing the **database schema** and **low-level architecture**, which enhanced user experience and **reduced transaction times by 20%** through optimized design and seamless implementation.
- Integrated **bank APIs** for seamless fund transfer and settlement systems using **Spring Boot**, **JSON Web Token(JWT)** for secure authentication, and **Spring WebClient** for real-time API communication.

### Cleartrip (Client)

Bengaluru, India

Senior Software Engineer

Duration: 6 months

- **Collaborated with Cleartrip** to successfully launch the **bus booking feature** on their platform, playing a key role in the seamless integration of our API into their existing system. Leveraged **Java Spring Boot** to design and implement a robust, scalable architecture that ensured smooth functionality and high performance.

### Mantis Technologies Private Limited

Bengaluru, India

Software Engineer

Dec 2018 - Aug 2021

- Led the migration of databases from **MSSQL** to **MySQL** on **AWS RDS(Relational Database Service)** utilizing **AWS DMS(Database Migration Service)**, optimizing infrastructure, reducing licensing costs, and enhancing performance. Refactored and migrated **stored procedures** to ensure compatibility, resulting in significant cost savings and improved operational efficiency.
- Worked on developing a **global distribution system** to aggregate real-time bus data from multiple providers, leveraging **Redis** for **efficient caching** and improved system performance. Processed millions of tasks using **AWS SQS(Simple Queue Service)**, implementing pull-based scheduling and **event-driven** triggers to optimize execution.
- Maintained and optimized a RESTful API for distributing bus data to our travel API partners, ensuring high availability and scalability using **Spring Boot** and **Spring Web**. Leveraged **Spring Data JPA** for efficient database interactions and implemented **Spring Security** to ensure secure data access.

## Education:

### NRI Institute of Technology and Management

Gwalior, India

Bachelor of Engineering in Computer Science (CGPA: 6.86)

2012 - 2016

- **Relevant Coursework:** DSA (Java), Computer Networks, DBMS, Object Oriented Programming