

# Anil Kumar

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## Professional Summary

**Senior Software Engineer with 3+ years of experience** delivering scalable microservices and high-performance APIs by applying event-driven architectures and cloud-native design principles, resulting in improved system reliability, security, and operational efficiency across large-scale enterprise platforms.

## Skills

**Languages:** Java, Python, C, C++, JavaScript, PHP, HTML, CSS

**Frameworks:** Spring Boot, Flutter, Django, Bootstrap, FastAPI

**Queues:** RabbitMQ, Kafka, Solace

**Databases:** MongoDB, MySQL

**Technologies & Tools:** Jenkins, Grafana, Kibana, Git, Elasticsearch

## Work Experience

Airtel, Gurugram

July 2022 - Present

**Senior Software Engineer**

- Enhanced runtime performance by 40% and reduced technical debt by migrating the platform from Spring Boot 2 to Spring Boot 3 and upgrading Java from 8 to 21, enabling adoption of modern language and framework features.
- Reduced incident resolution time by 90% by creating an AI-powered agent that performed alert RCA analysis and automated Jira issue creation via Telegram, improving SRE operational efficiency.
- Improved order tracking efficiency by 35% by implementing an event-driven update architecture on the Airtel Thanks for Business platform, enabling real-time and consistent order lifecycle updates.
- Increased event accuracy from 85% to 99% by introducing advanced validation and consistency checks, resulting in highly reliable order status updates.
- Reduced critical production incidents by 40% by implementing RBAC, circuit breaker patterns, and intelligent retry mechanisms, significantly improving platform security and resilience.
- Accelerated product onboarding by 70% by building a config-driven onboarding framework, minimizing manual intervention and enabling faster launch of 5 new business products.
- Delivered real-time analytics pipelines using MongoDB Change Streams and Kafka Connect for continuous data publishing.
- Improved system availability and fault tolerance by eliminating startup dependencies on the Aerospike cluster across microservices, ensuring graceful degradation during infrastructure outages.
- Strengthened system modularity and fault tolerance by designing optimized microservices for order lifecycle management, ensuring high availability and seamless service isolation.
- Java, Python, SpringBoot, Fast API, RabbitMQ, Kafka, Solace, MongoDB, Jenkins, Grafana, Kibana, Git, Elasticsearch

## Education

NIT Bhopal

July 2018 - May 2022

B.Tech in Computer Science and Engineering

CGPA: 8.30/10

**Relevant Coursework:** Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

## Project Work

- **Flutter News App :** | Dart, Flutter, FirebaseDatabase, Youtube API, News API
  - **Architected and Developed:** Led the high-level design and implementation of complex application features, ensuring seamless integration of NewsAPI and YouTubeAPI for real-time news and video updates with <2s latency.
  - **Integration and Performance:** Ensured real-time data synchronization and optimized API consumption to deliver fast and reliable content updates.
  - **Maintenance and Support:** Improved database efficiency by 30% through stored procedure optimization and automated log file cleanup, ensuring smooth app performance.
- **Android Vision Improvement System :** | Java, Python, Android Studio
  - **Enhanced Accessibility for the Visually Impaired:** Our solution empowers blind individuals with real-time text-to-speech conversion, enabling them to read any text aloud instantly, making printed materials, digital text, and labels easily accessible with latency < 1s.
  - **Comprehensive Environmental Awareness:** Integrated Indian currency recognition with 95% detection accuracy and lighting assessment, enabling secure transactions and safer navigation.