

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.
- **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.

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, FirebaseDB, 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.