Ajay Kumar Kushwaha

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Skills & Technologies

- **Programming**: Java (core), OOPs, Multithreading & Concurrency, C++, Data Structures & Algorithms
- **Backend**: Spring Boot, Microservices, REST APIs, Kafka, elastic-search, gRPC, Design Patterns, HLD, LLD, Distributed Systems, Circuit breaker, JWT, OpenTelemetry, Zipkin
- **Databases**: JPA, Hibernate, PostgreSQL, Redis, MongoDB, NoSQL
- **Frontend**: JavaScript, TypeScript, Angular, Responsive Web-design, RxJS, Routing, Reactive Forms, ReactJS, CSS3
- **Additional**: Git, Dockers, Kubernetes, CI/CD, Azure, Grafana, Prometheus, Profiler, IntelliJ Idea, Postman

Work Experience

Software Engineer 2 - Microsoft   *Hyderabad (Aug 2024 – Present)*

- Business Insights
    - ∗ Designed and built the Fabric POC and MVP that powered Business Insights Power BI reporting, serving as the unified data source by integrating telemetry from multiple clusters with ensured freshness, granularity, and retention.
    - ∗ Architected end-to-end data pipelines and star schema models in the Data Warehouse and Microsoft Fabric, enabling scalable, query-optimized storage for long-term telemetry analysis.
    - ∗ Implemented automated data validation pipelines comparing metrics across Kusto and Data Warehouse, achieving 97.4% accuracy in core telemetry dimensions for Azure PostgreSQL.
- ICM Automation and Monitoring Enhancements:
    - ∗ Designed and implemented alerting monitors for the account MicrosoftDBForPGFlexProd, focusing on events-perminute and time series tracking. Worked validating monitors, ensuring proper incident routing, metadata tagging, and workflow integration. increased limits where necessary to ensure uninterrupted service availability.

Software Engineer Backend - Sun King (Greenlight Planet)   *Gurgaon (July 2022 – Aug 2024)*

- Led the architectural design of microservices, DB schemas and development of REST APIs for Lead Management, Order Management, Loan Management, and subsequent stages such as Payments, Refunds, Replacement, Repossession, Wallet.
- Orchestrated the complete Order Life Cycle, encompassing creation, integration of inventory actions (allocation, de-allocation, selling), re-assignment, and order cancellation. Proactively identified and resolved critical bugs in inventory management, particularly related to pricing-group and mapping of products.
- Took Ownership of elastic-search & related operations from configuration setup in all microservices to building multiple autocomplete APIs. Optimized & refactored code with a standardized re-usable response structure. Identified and resolved data-inconsistency issue between PostgreSQL DB and Elastic Db by Syncing API using Registry Design Pattern.
- Implemented write-through cache (redis) for third-party authentication token improving efficiency by 60%. Replaced R-socket based authentication to gRPC based for microservice communication improving to 30% boost in performance of the system.
- Configured Kafka consumer for real-time receipt of payments from MPESA. Implemented Scheduler to allocate payments to orders, initiated refunds for unallocated payments. For sending real-time SMS to customers, and data pointsfor analytics team.
- Backend Support for the offline feature in the mobile application, Integration with Samsung Knox, Pay-as-you-go Phones from In-warding to locking and unlocking using keycode. Bulk recharge for Agent Wallets from CSV file for incentives and payout.
- **Tools & Technologies**: Java, Spring Boot, Elastic Search, PostgreSQL, gRPC, Kafka, Microservices, Dockers

Specialist Programmer - Infosys   *Bengaluru (Oct 2020 – June 2022)*

- Designed Angular Components, reactive-forms, implemented modularization, routing, lazy-loading, Pop-up (Modal).
- Developed REST APIs in microservice architecture wrote unit tests, optimized stored procedures, API integration using RxJS.
- **Tools & Technologies**: Angular10, typescript, Material-UI, REST API, Sql, Java, Spring Boot, Git

Education

Jaypee Institute Of Information Technology, NOIDA (U.P.)   **2016 − 2020**
Bachelor of Technology in Information Technology   *CGPA: 8.2*

Jay Jyoti School, Rewa
CBSE - Senior Secondary (XII)   *93.4% (2016)*
CBSE - Secondary (X)   *9.6 CGPA (2014)*