

Ashutosh Kumar

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EDUCATION

National Institute of Science And Technology

Bachelor of Technology, in Computer Science

Berhampur, Orissa

08/2018 – 06/2022

SKILLS

Languages: Java, C/C++, SQL

Frameworks: Spring Boot, Kafka, REST APIs, Apache Spark, ETL Processes.

Developer Tools and Operating System: Git, Docker, Azure cloud, AWS S3, Postman, Linux, Mac, Windows

Core Skills: Data Structure, Algorithms, Object Oriented Programming

Soft Skills: Cross-Functional Collaboration, Strategic Thinking, Team Communication

EXPERIENCE

Wipro Limited

Software developer

Files Rehydration - Financial Service Company

- Designed and developed a Java-based file rehydration service to mitigate data loss risks, inspired by the recent **CrowdStrike outage**.
- Built an **automated metadata ingestion** system using Kafka, which monitors NAS for new files and sends file metadata as JSON messages to Kafka queues.
- Developed a **microservice** to read Kafka messages, upload files from NAS to AWS S3, and record file details in a relational database for tracking and audit purposes.
- Implemented a **REST API** to facilitate on-demand or scheduled downloads of files from AWS S3 back to NAS, using time intervals as parameters.
- Ensured **high reliability and performance** by optimizing the file transfer process and implementing best practices for cloud storage integration.
- Strengthened data resilience and availability**, addressing critical business needs for secure and reliable file handling systems.

Wipro Limited

Data Engineer

Informatica Replacement - Financial Service Company

- Developed an **ETL pipeline** using Java, Spring Boot, Spark, and SQL to **Replace legacy Informatica** workflows, resulting in a **30-50% reduction in processing costs**.
- Devised a file Ingestion system** to validate files from specified locations based on predefined criteria, improving data validation efficiency.
- Collaborated in development and deployment of data transformation and enrichment logic in an agile environment, improving data accuracy and ensuring the timely delivery of customer-facing features for high-impact applications.
- Applied design patterns like Singleton and Factory for scalable ETL workflows, translating stored procedures into JSON configuration files, **reducing processing time by up to 30%**.
- Delivered enriched output files, ensuring data accuracy and smooth integration with downstream systems, contributing to overall **cost reductions in infrastructure and licensing**.

Wipro Limited

Data Engineer

Routing Files - Financial Service Company

- Designed and deployed distributed systems using Java, Spring Boot, and Spark, ensuring high performance and scalability for critical file routing tasks, **reducing infrastructure costs by 20%**.
- Implemented a scalable Spring Boot API client for Kubernetes Custom Resource APIs with advanced polling features, automating file retrieval and **improving operational efficiency by reducing manual intervention**.
- Led code reviews and implemented unit tests for Kubernetes-deployed services, ensuring streamlined file processing, resource management, and **improved system efficiency**.
- Managed the full software development life cycle for distributed applications, including coding standards, source control, build processes, testing, and deployment automation using Git and Docker.

PROJECTS AND TRAINING

- Pollution App | Training** | *Java, Spring Boot, TypeScript, Angular, SQL, MongoDB* 04/2022 - 07/2022
- Developed a full-stack web application utilizing relational (MySQL) and NoSQL (MongoDB) databases to handle data sets, ensuring fast retrieval and storage capabilities.
 - Added features like user profile creation, profile editing, and wishlist functionality, improving user engagement.
- Unified Credit Card Payment | Project** | *Java, Spring Boot, Angular, H2 DB* 01/2023 -03/2023
- Built a web platform to streamline credit card bill payments using microservices architecture.
 - Designed a system comprising an API Gateway, Eureka Server, and services for User, Card, Payment, and Rewards, simplifying bill management.

CERTIFICATION

- Azure Data Fundamentals Certification** Online
Microsoft Azure 09/2024
- Azure Fundamentals Certification** Online
Microsoft Azure 09/2024
- Java Full Stack Certification** Online
Stackroute 10/2022