Mahesh M

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Summary

Results-driven Software Engineer with 4+ Years of expertise in Java, Spring Boot, Microservices, and Cloud-Native Development. Skilled in designing REST APIs, building distributed systems, and deploying scalable applications using Kubernetes and Docker. Strong background in Big Data (Hadoop, Spark, Hive, Pig), event-driven architectures (Kafka, RabbitMQ), and. Adept at optimizing data pipelines, ETL/ELT workflows, and implementing CI/CD pipelines in Agile environments. Developed and deployed scalable applications using AWS services such as EC2, S3, Lambda, and API Gateway. Proven track record of improving performance, enhancing system reliability, and reducing operational costs through clean, maintainable, and well-tested code.

Skills:

Programming Languages: Python, SQL, Java, Node.js, JavaScript
Frameworks & Technologies: Spring Boot, Spring MVC, Hibernate, JDBC, REST APIs, React.js
Databases: PostgreSQL, MySQL
Cloud & DevOps: Docker, Kubernetes, CI/CD Pipelines
Messaging & Streaming: Kafka, RabbitMQ
Big Data & Analytics: Hadoop, Spark, Hive, Pig, ETL/ELT, Data Pipeline Optimization
Testing Tools: JUnit, Mockito
Monitoring & Logging: Splunk
Version Control & Collaboration: Git, Terraform, Jira, Confluence
Methodologies: Agile, Scrum

Work Experience:

Software Engineer **NY**
Mastercard **Feb 2024 - Present**

- Designed and deployed scalable microservices with Spring Boot, integrating RabbitMQ to enable high-throughput, asynchronous communication.
- Built REST APIs integrating 10+ internal and external systems, reducing manual data processing by 80%.
- Built and deployed high-performance APIs with Python FastAPI, leveraging async I/O for concurrent client requests and integrating with Kafka for real-time processing.
- Developed scalable backend services using Java 11 features like var, streams, and the new HTTP client API.
- Built high-concurrency Node.js applications to support thousands of simultaneous client requests.
- Designed and deployed GraphQL APIs to optimize data fetching for React-based UI, reducing network payload by 35%
- Monitored system performance and resource utilization using top, htop, iostat, and vmstat on Ubuntu servers
- Designed serverless architectures leveraging AWS Lambda, DynamoDB, and S3 for cost-efficient solutions.
- Automated ETL workflows using AWS Glue and orchestrated data pipelines with Step Functions.
- Managed and deployed Java/Spring Boot applications on Ubuntu Linux servers, ensuring high availability and stability
- Implemented concurrent and parallel processing using Goroutines and Channels in Golang
- Designed data models and implemented MySQL query optimizations, reducing report generation time by 40%
- Worked in Agile/Scrum teams, leading sprint planning, backlog grooming, and release coordination.
- Deployed and scaled containerized applications on Kubernetes and Docker, ensuring 99.99% production uptime.
- Led code reviews and mentored junior developers, improving team productivity and code quality standards.
- Enhanced React-based UI using Hooks and Context API, increasing rendering performance by 15%.

Software Engineer **Hyderabad, India**
Cognizant Technology Solutions **Jan 2020 – Jul 2022**

- Led the migration to microservices architecture for a customer management platform, improving modularity and scalability.
- Designed and developed RESTful APIs with Spring Boot, ensuring efficient and secure service-to-service communication.
- Migrated MapReduce jobs to Apache Spark, reducing processing time by over 60% through in-memory computation.
- Developed Terraform modules for microservices deployment, ensuring scalable infrastructure across multiple environments.
- Integrated lambda expressions in Spring Boot services for cleaner and more expressive code.
- Used Linux CLI tools grep, awk, sed, find, rsync, tar for data processing, log parsing, and automation.
- Configured IAM roles, policies, and security groups to manage access control in AWS environments
- Implemented responsive UI components using JavaScript frameworks and libraries to ensure cross-browser compatibility.
- Implemented Kafka-based event-driven architecture for real-time data streaming between systems.
- Created reusable A/B testing frameworks that integrated directly into CI/CD pipelines for automated deployment and rollback
- Utilized Kubernetes namespaces and RBAC to enforce access control and isolate resources across environments.
- Automated testing with JUnit, increasing code coverage by 40% and improving release quality.
- Integrated Node.js applications with third-party APIs, enabling new service capabilities without impacting core systems

Education:

University of Missouri - Kansas City, MO - *Master of Science in Computer Science* 2023 – 2023