Irshad A. Schowrai

Worcester, MA | +1 774-696-9620 | irshad_ahmeds@yahoo.com | GitHub | LinkedIn | iaschowrai.com

Professional Summary

Overall, 12 years of work experience, and expertise in crafting scalable solutions using Java frameworks such as Spring Boot. Proficient in leveraging cloud services like AWS and containerization technologies like Docker and Kubernetes, I excel in designing, developing, and deploying resilient backend systems. My skill set includes a deep understanding of microservices architecture, RESTful APIs, and database management. With a track record of delivering robust and efficient solutions, I am committed to driving innovation and excellence in Java backend development within cloud-based environments.

Skills

Language: Java, Python, HTML, CSS, JSON.

Framework: Spring Boot, ReactJS, Flask.

Server: Apache web server, Apache Tomcat.

Tools: Git, GitHub, Docker, Postman, Selenium.

AWS Cloud Service: EC2, S3, DynamoDB, SQS, Lambda.

Azure Cloud Service: Azure Data Lake, Azure Data Factory, Azure SQL Database, Azure Function.

DBMS: MongoDB, PostgreSQL, MySQL, MSSQL.

Education

Clark University United States.   Master Of Science in Computer Science   Jan. 2022 – Dec. 2023

Design and Analysis of Algorithms, Server-Side Web Programming, Software Engineering, DevOps, Software Quality Assurance & Testing.

Project Work

- **Spring Boot Microservice:** GitHub Repository Link
  - In this project, designed and implemented a Spring Boot microservices architecture with the purpose of enhancing streamlines inter-service communication across microservice. To handle incoming requests from users, I developed a central API gateway that manages traffic efficiently, balances workloads, and ensures everything is secure. A centralized service registry was established using Eureka Server and Discovery Client. With Zipkin integration, distributed tracing was enhanced, and Spring Actuator monitored microservices efficiently. Containerizing with Docker and orchestrating with Kubernetes yielded a resilient, scalable ecosystem.
- **Fileserver Challenge (Microservices Project):** GitHub Repository Link
  - The project focuses on developing a middleware application using Flask, Redis, and Docker to manage file storage and retrieval operations efficiently. It targets handling thousands of requests per second, by implementing Redis caching, the middleware aims to reduce latency and improve response times by up to 50% for frequently accessed files. The Docker containerization allows seamless scaling, accommodating more users and file transfers. Overall, the project aims to achieve a 99.9% uptime rate and handle peak loads of up to 10,000 concurrent users while maintaining optimal performance.

Work Experience

EY (Ernst & Young LLP) - India   May 2021 – Dec. 2021
Senior Consultant

- Collaborated with cross-functional teams to troubleshoot and resolve issues, ensuring smooth functionality and optimal user experience on web applications.
- Collaborated with the Agile team to meet sprint goals, providing regular updates and addressing challenges.
- Implemented Interfaces, OOP concepts, Collections, Exceptional Handling, JVM, Garbage collections, Multi-threading, Compositions, and aggregations.
- Good understanding of AWS API Gateway for precise routing of client requests to designated microservices, enhancing scalability and optimizing system architecture.
- Designed and implemented Eureka Discovery client, reducing service registration time by 20% and establishing a centralized directory for 15 microservices, enhancing overall system efficiency.

- Integrated Feign clients for effective and declarative communication between microservices. This approach streamlined the fulfillment of business needs, enhancing efficiency in data retrieval and overall communication.
- Designed and developed Spring data to seamlessly manage entity relationships in a Spring Boot application, designed a robust DAO layer for modular database access, and utilized DTOs for efficient data transfer.
- Implement logging mechanisms using SLF4J for tracking and analyzing application behavior, integrated Zipkin for distributed tracing and set up monitoring tools using Spring Boot Actuator.
- Develop and execute unit tests using JUnit and Mockito to ensure code reliability and stability. Actively Contribute to the establishment and maintenance of automated testing processes.
- Utilize Git for version control, actively participate in code reviews, ensuring code quality, and adhering to coding standards. Containerize microservices with Docker for consistent development and production environments.

JK Technosoft Pvt Ltd - India   Sep. 2020 - May 2021
Senior Developer
- Managed EC2 instances to meet application demands, ensuring scalability, availability, and security.
- Installed applications on AWS EC2 instances and configured S3 storage buckets proficiently and utilized AWS S3 Services for storing and retrieving data effectively.
- Develop serverless applications using AWS Lambda, leveraging event-driven architecture to execute code in response to various triggers.
- Created many Stored procedures and scheduled jobs to support our applications for creating reports for customers.
- Played a pivotal role in optimizing stored procedures through dynamic pivoting, achieving a significant reduction in processing time from 45 to 2 minutes, enhancing overall system efficiency.
- Established and oversaw Jira tasks for each sprint, encompassing bug tracking and task creation. Ensured a structured and organized workflow, contributing to streamlined project management.
- Utilized Azure Cosmos DB for NoSQL requirements, ensuring flexibility, and Azure SQL Database for structured data storage. Implemented diverse data storage solutions based on the specific needs of the microservices.

Victory Packaging Industry - India   Jun. 2014 – Dec. 2019
Operation Analyst
- Established and oversaw Jira tasks for each sprint, encompassing bug tracking and task creation. Ensured a structured and organized workflow, contributing to streamlined project management.
- Implemented a Python script within an Azure Function to automate the conversion of files format, resulting in a 30% reduction in data transformation time.
- Designed and implemented data integration workflows in Azure Data Factory, optimizing ETL processes with Python, resulting in 20% increase in efficiency.
- Collaborated seamlessly in Azure SQL Database, optimizing queries through T-SQL in SSMS to enhance data processing efficiency by 50%.

Carton & Carton - India   Jan. 2009 – Jun. 2014
Planning Process Associate
- Collaborated with cross-functional teams to gather requirements and ensure alignment with organizational goals.
- Designed and executed comprehensive technical test plans, resulting in a noteworthy 15% improvement in overall system performance and strategic decision-making.
- Developed scalable stored procedures that encapsulate complex logic for process optimization, resulting in 30% increase in performance.
- Extensive experience in database programming on stored procedures, functions, and triggers using MySQL.
- Implemented a proactive approach in addressing bug issues, resulting in a 30% reduction in the time taken to resolve issues and an increase in overall client satisfaction.

Certificates

- **Oracle Java Explorer** –Scored 100% in Oracle Java Explorer Assessment, showcasing comprehensive mastery of Java programming and earned the prestigious Explorer Badge for excellence.