MD FARAZUL HAQUE

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Summary

Expert Software Engineer with skills in requirement definition, release management and code debugging. Innovative and creative in developing fresh designs to meet current and forecasted needs. Works great with technical and non-technical teams to co-ordinate on-time, quality releases.

Experience

Software Engineer   **05/2022 to Current**
ARC Document Solutions   **Kolkata**

As a **Software Engineer** at **ARC Document Solutions**, I have made substantial contributions to enhancing system reliability and optimizing performance across staging and production environments. My key achievements include:

- Developed a **comprehensive search solution with Elasticsearch** and **Spring Boot**, integrating advanced features such as recent searches, top picks, and personalized product suggestions to enhance user search experiences.
- Created **cost-efficient Java code for AWS Lambda**, leading to a 40% reduction in operational costs and improving serverless function efficiency.
- Implemented **Hadoop High Availability on HBase** and transitioned from a paid **Ambari Managed Hadoop Cluster** to a **self-managed solution**, increasing system resilience and flexibility while optimizing costs.
- Automated data backup processes using **Bash scripts** and set up daily automated backups with **HBase snapshots** and S3 integration, improving data management and reliability.
- Wrote **Bash scripts** to automate the starting and stopping of Hadoop services, facilitating server maintenance with minimal human intervention.
- Designed and implemented a **Spring Boot-based monitoring tool**, enhancing application visibility and data access for better operational management.
- Undertook a major refactoring project by transitioning a legacy codebase from Ant to a modern **Spring Boot** application. This involved an in-depth analysis of the existing architecture, carefully developing a new Spring Boot project with streamlined dependencies, and meticulously migrating all functionalities from the outdated system. This complex task resulted in significant improvements in system performance, security, and maintainability, revitalizing a long-standing codebase.
- Led the automation of cluster maintenance with **Ansible**, achieving a 35% increase in operational efficiency and reducing manual workload.
- Enhanced security and streamlined operations by implementing **passwordless SSH access** across Hadoop cluster nodes and updating libraries to remove vulnerable JARs.
- Developed **Java-based search functionality in AWS Lambda**, triggered by SQS queue messages, demonstrating serverless architecture proficiency.
- Utilized **Solr** and **Elasticsearch** for advanced searching and indexing across ARC products, optimizing data retrieval and search functionality.
- Revitalized legacy codebase by integrating **RabbitMQ**, **Redis**, and **MySQL clusters**, modernizing operations and improving data handling.
- Conducted **R&D on JanusGraph**, developed **Java Spring Boot code** for MySQL data migration, and crafted **Gremlin queries** to enhance graph database capabilities.
- Designed an architecture that updates all child folders and documents in real-time when a folder is modified, using **Elasticsearch** for efficient data indexing and retrieval.
- Demonstrated expertise in **Java, Spring Boot, Hadoop HDFS, HBase, Solr, Ansible, AWS Lambda, AWS SQS, RabbitMQ, Redis, MySQL, Elasticsearch, and Gremlin** through extensive hands-on experience and technical proficiency.

Subject Matter Expert (CSE)   **08/2020 to 05/2022**
Chegg India

As a Subject Matter Expert at Chegg India, I played a pivotal role in providing comprehensive assitance to students globally. Key achievements include:

- **Specialized** in resolving programming and theoretical doubts with expertise in **Java, Python, HTML, CSS, JavaScript, C, C++, and Bash Script**.
- **Successfully addressed** queries for nearly **1400 students**, demonstrating a deep understanding of diverse programming languages and technologies.

Primary Skills

- Java
- Spring Boot
- MySQL
- Elasticsearch
- Ansible

Secondary Skills

- Python
- HTML
- CSS
- Hadoop HDFS
- HBase
- Solr
- Docker
- AWS Lambda
- AWS SQS
- RabbitMQ
- Microsoft Excel
- Cassandra
- Bash Script
- Janusgraph
- Gremlin

Certifications

- Programming with Java, NPTEL

Education

M.Tech: Software Engineering   **06/2022**
Babasaheb Bhimrao Ambedkar University   Lucknow
- GPA: 8.19

Post Graduate Diploma: Advance Computing   **04/2022**
Centre for Development of Advance Computing (CDAC)   Patna
- Percentage: 85.00

Post Graduate Diploma: Computer Programming   **06/2022**
Aligarh Muslim University   Aligarh
- Percentage: 71.50

B.Tech: Computer Science Engineering   **11/2020**
Aliah University   Kolkata
- CGPA: 7.02

Projects

- **Pharmacy E-Commerce Website** (February 2022 - March 2022):
  - Developed a Java appliction using Spring Boot for backend, JSP for frontend, and MySQL for database for our pharmacy e-commerce web portal.
  - Facilitated timely delivery of medicines by connecting local medical shops and customers, maximising reach and ensuring quick service.
- **Remote Linux Server** (September 2020 - October 2020)
  - Created user friendly web app using HTML, CSS, and Python with Linux for backend operations.
  - Implemented security features such as three attempt login limit and disabled input boxes after unsuccessful attempts.
  - Supported basic and advanced Docker commands, enhancing usability and functionality for remote server management.
  - Enabled file manipulation remotely, including opening files with gedit and viewing file content using Linux commands.
- **Voice-Based Assistant** (July 2020 - August 2020)
  - Implemented a voice responsive assistant using Python, enhancing user interaction and control.
  - Incorporated secure login with a three attempt limit, automatically terminating the application upon failure.
  - Enabled diverse functionalities such as displaying current time and date, opening social media platforms, email and code repositories.
  - Integrated entertainment features like playing music, creating versatile and user friendly voice-based assistant.