**Asad Raza Khan**

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**Professional Summary:**

● Extensive 12 years of experience in design, development and Agile methodologies like SCRUM, Test Driven Development (TDD), Incremental and Iteration methodology and Testing using Software Development Life Cycle.

● Experienced in implementing Core Java concepts and strong understanding of Garbage Collector, SWING, Collections, OOPS concepts, Design Patterns, Multithreading, Event handling', Exception handling, Generics and Serialization.

● Developed the Spring Boot 2.x applications using Java 1.8 using the advanced version of Eclipse IDE which is Spring Tool Suite (STS) and Maven as the build tool and Helped update PRI's internal framework to Spring 4.x / 5.x to create a more organized codebase.

● All modules developed with the framework design patterns and DAOs, 4.x / 5.x for persistence layer, Spring Framework for Application layer and Create API documentation using tools such as Swagger.

● Experienced in building enterprise Applications and Distributed Systems using technologies such as Core Java, J2EE (Servlets, JSP, JSF EJB, Hibernate, spring, Mybatis, JPA Toplink, Thymeleaf, JDBC, Struts, JMS, AWS and XML and API tools and good knowledge on AWS tools like S3, AWS Fargate, Lambda, Aurora, Kinesis, CLIs, Cloud Watch, SQS.

● Extensively worked on front end, business, and persistence tier using the html5, CSS,3JQuery, JSP, Tiles, Spring MVC, Spring IOC, Spring AOP, Spring Tx, Mybatis frameworks.

● Solid understanding of Object Oriented Analysis and Design (OOD& OOPS) Dependency Injection, UML and RDBMS principles.

● Spring boot - Rest API developments for XDS - KYC applications integrate into tools layer.

● Extensive working knowledge on using Object/Relational bridge technologies such as Hibernate. HQL, Hibernate Caching, Hibernate Transactions.

● Extensive experience in designing, implementing, and managing data streaming solutions using Amazon Kinesis Firehose.

● Proficient in setting up and configuring Kinesis Firehose delivery streams to ingest, transform, and load streaming data into AWS data lakes and analytics services.

● Experienced in core AWS services (S3, EC2, ELB, Route53, VPC, Subnet, Auto Scaling, cloud Trail, cloud Watch, ECS etc).

●● Hands-on experience in deploying and managing applications on GCP using Kubernetes Engine and Cloud Run.

● Extensive experience in crafting well-organized GraphQL schemas, defining types, queries, mutations, and relationships to meet application requirements.

● Extensive knowledge of .NET frameworks, including ASP.NET MVC, Web API, and .NET Core, with a proven track record of building scalable and efficient applications.

● Skilled in database design and development using SQL Server, with experience in optimizing database performance and ensuring data integrity.

● Strong problem-solving skills and a collaborative mindset, adept at working closely with cross-functional teams to deliver projects on time and within budget.

● Expertise in Webpage Development utilizing MVC JavaScript frameworks, HTML5, CSS3, jQuery, Bootstrap, Angular 2, React.js, Node.js and Developed tools using Python, Shell script, XML to automate some of the menial tasks.

● Skilled in configuring data inputs, parsing rules, and field extractions in Splunk Cloud to ingest and normalize data from various sources, including logs, metrics, and events.

● Expertise in Splunk data management, including data retention policies, index lifecycle management, and data partitioning strategies for optimizing storage and performance.

● Advanced understanding of Kinesis Firehose delivery stream destinations, including Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, and Amazon OpenSearch Service.

**Work Experience**

Lead java Full stack Developer|**ESTES EXPRESS - Remote| 01/2022 - Current**

* Extensively used Java 17 features such as lambda expressions, parallel operations on collections, multithreading and for effective sorting mechanisms and Streams to store and process the data.
* Developed and deployed Java applications on Google Cloud Platform(GCP), utilizing services like Google App Engine and Google Kubernetes Engine for scalable solutions.
* Configured and managed Kafka consumer groups to balance message consumption load and ensure fault tolerance.
* Deployed and managed containerized applications on **GKE**, leveraging Kubernetes for orchestration and scaling.
* Deployed and managed applications on J2EE servers such as Apache Tomcat, JBoss, or WebSphere, ensuring high availability and reliability.
* Wrote TypeScript code for front-end logic, using ES10 features where applicable, and integrating these features into the existing React application.
* Assisted in troubleshooting and debugging Spark applications, identifying bottlenecks and optimizing resource utilization.
* Microservices have been built using Spring boot, Spring security and deployed to AWS cloud
* Developed RESTful Microservices using Spring Boot for the application to seamlessly integrate with supporting sub systems
* Deployed Spring Boot based microservices in Kubernetes, Docker and Amazon EC2 container using Jenkins Worked on Java REST API development and developed data persistence framework for working with huge datasets.
* Implemented .NET Core-based backend services, RESTful APIs, and microservices to support various business functionalities and integrate with external systems.
* Analyzed large datasets using **BigQuery**, implementing SQL queries for data extraction and reporting, optimizing performance for analytics.
* Optimized Hadoop and Spark job performance by tuning configurations, adjusting resource allocations, and applying best practices for efficient data processing.
* Managed and monitored GCP resources using Google Cloud Console, ensuring optimal performance and cost efficiency.
* Configured and maintain CI/CD pipelines using tools such as Jenkins, GitLab CI, Travis CI, or CircleCI to automate build, test, and deployment processes.
* Utilizing Java tools in business, Web, and client-server environments including Java J2EE, Java multi-threading, Java Server Pages (JSP), Java Servlets, Struts, spring, Hibernate and Java database Connectivity (JDBC) technologies.
* Implemented Java EE components using Spring MVC, Spring IOC, Spring transactions and Spring security modules
* Developed the Spring Boot 2.x applications using Java 1.8 using the advanced version of Eclipse IDE which is Spring Tool Suite (STS) and Maven as the build tool.
* Designed and developed the persistence tier using Java, J2EE, Spring, Struts, JSF, JSP, Servlets, NetBeans, Hibernate framework
* Designed and developed of, Object Oriented (OOPS), distributed OOAD based system using UML/ Rational Rose.
* Implemented new features and functionalities in the front-end of web applications for writing TypeScript code to enhance the user interface and user experience.
* Implemented CI/CD pipelines on GCP using Cloud Build and GitHub Actions to automate the build, test, and deployment process.
* Worked on optimizing performance and cost-efficiency of applications on GCP by utilizing services like Cloud Monitoring and Cloud Logging.
* Developed robust resolver functions in Java to handle GraphQL queries and mutations, ensuring optimal performance and data integrity
* Developed RESTful APIs and integrated third-party services using Java 11 at both organizations Successfully integrated GraphQL with Java technologies, leveraging Spring and Hibernate to seamlessly connect GraphQL APIs with underlying data sources.
* Implemented performance optimization techniques in GraphQL queries, minimizing data transfer and enhancing overall system responsiveness.
* Used SWAGGER a set of open source tools built around the OpenAPI specification that can help build design, document and consume REST APIs.
* Wrote TypeScript that is transpiled into Javascript via the CLIs powered by Webpack, AWS Fargate, with a design that is informed by Google's Material Design Specifications.
* Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS Light AWS Aurora DB cluster.
* Configuring azure automation jobs and write Power Shell scripts to automate various tasks for azure management
* Deployed Spring Boot based microservices in Kubernetes, Docker and Amazon EC2 container using Jenkins
* Replacement of struts to Spring Framework using Spring Framework, Thymeleaf, JQuery and MySQL.
* Developed a fully functional prototype application using JavaScript and Bootstrap, connecting to a REST service hosted on AWS using API Gateway and used Dynamo DB.
* Utilized Spring Cloud Stream to build event-driven microservices and integrate with message brokers like RabbitMQ or Apache Kafka for asynchronous communication.
* Worked on Java REST API development and developed data persistence framework for working with huge datasets.
* Used MongoDB and MySQL databases in Web API development.
* Developed database migrations Developed various web applications /web pages using HTML5, CSS3, JavaScript, React.JS, Angular, NodeJS.
* Designed various web concepts like security (OAuth, SiteMinder and OpenID), session controlling, storage
* Experienced in designing DevOps architectures for continuous integration and continuous delivery (CI/CD) pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy.
* Skilled in designing monitoring and logging architectures using AWS CloudWatch, CloudTrail, and AWS Config for real-time visibility and auditability
* programming and proficient in Database programming using JDBC, Oracle, MySQL, DB2, PostgreSQL, NoSQL, SQL, MongoDB, Cassandra DB.
* Setting up OAuth 2.0 providers (e.g., using frameworks like Spring Security OAuth) and configuring client applications to securely communicate with OAuth 2.0 servers.
* Developed the UI responsible for creating efficient design and developing User Interaction screens using HTML5, CSS3, JavaScript, jQuery, React.js, Node.js, Angular2 and JSON.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups, Optimized volumes and EC2 instances.
* Configured and Managed EC2, Elastic Beanstalk, RDS, S3 Buckets, VPC, Security Groups, ECS, Auto scaling, ElasticCache, Glacier, SNS, SQS, SES and CloudWatch.
* Debugging TypeScript code, identifying issues in React components, and ensuring the application functions as expected across different browsers and devices.
* Managed Ubuntu Linux and Windows virtual servers on AWS EC2 using Puppet.

Lead Java Full Stack Developer| **FIDELITY INVESTMENTS – Remote, NC| 04/2019 - 12/2021**

* Designed and implemented scalable and robust Java-based microservices using Spring Boot, leveraging Spring Framework and Hibernate for efficient data access and management.
* Utilized Spark's RDD (Resilient Distributed Dataset) and DataFrame APIs in Java to perform complex data transformations and aggregations.
* Integrated Java applications with MySQL databases, implementing efficient data modeling, query optimization, and database performance tuning.
* Optimized Kafka configurations and Java client settings to improve throughput and reduce latency Managed database interactions using J2EE and ORM frameworks like Hibernate, optimizing queries for performance and data integrity.
* Developed applications with **MongoDB**, utilizing its NoSQL capabilities for flexible data modeling and efficient data retrieval.
* Reviewed Requirement, develop technical design documents and create a prototype of the critical business application using JAVA/J2EEInitiated use of HttpUnit, Selenium IDE for testing
* Created reusable UI components using React and TypeScript for writing JSX/TSX code, applying styles using CSS or CSS-in-JS solutions like styled-components, and ensuring components are responsive and accessible.
* Developed RESTful APIs using Java and Spring frameworks,
* facilitating seamless communication and data exchange between different components and systems.
* Worked on Java Multithreading, serialization, Garbage Collection, Exception Handling, Collection API's & Coherence Framework.
* Worked closely with DevOps engineers, QA teams, and other stakeholders to ensure alignment on CI/CD practices and deployment strategies.
* Implemented OAuth 2.0 for secure authentication and authorization, ensuring compliance with security standards, conducting security assessments, and responding to security incidents effectively.
* Utilized GCP services such as Compute Engine, Cloud Storage, BigQuery, and Cloud Functions to build scalable and reliable applications.
* Designed and Developed using Java/J2EE Technologies like Spring, Spring boot, Apache Spark, AJSC .Templates, Servlets, JSP, Struts, EJB, message broker ActiveMQ, JPA and JMS (Java Messaging Service).
* Developed application service components and configured beans using Spring IOC, creation of Hibernate .Developed Cloud Compatible MicroServices using Spring, Java and related web technologies.
* Worked on implementing Microservices architecture by using Docker containers.
* Managed application state using libraries like Redux or context API in combination with TypeScript interfaces and types to ensure type safety and maintainability.
* Developed MicroService to provide Restful API utilizing Spring Boot with various data persistence frameworks such Hibernate and JPA and messaging engines.Microservice API development using NodeJS, KOA, Docker, and Kubernete.s
* Participated in the migration of legacy systems to Java 11, ensuring seamless transition and minimal downtime Developed a business logic layer using spring Dependency Injection and client-side Java-beans for DAO Design Patterns.
* Leveraged ASP.NET MVC and Web API frameworks for building scalable and responsive web applications, ensuring compatibility with different .NET versions.
* Implemented .NET design patterns and best practices across different versions of the framework to ensure code efficiency, maintainability, and scalability.
* Developed and tested features in a Waterfall Model using ML, JSON, CSS JavaScript, Bootstrap, with AWS apps.
* Integrated .NET Core and .NET Standard libraries to achieve cross-platform compatibility and code reusability across different .NET environments.
* Designed and developed microservices on GCP, utilizing Cloud Functions and Cloud Run for serverless computing capabilities.
* Developed Struts Action and Action Form Java classes as needed, added information to the struts-config.xml configuration file to fit a given page into the flow of the application.
* Implemented Object Oriented Programming (OOPS) concepts and principles and worked on Object Oriented Design (OOD).
* Integrated GCP with CI/CD tools like Jenkins and Cloud Build for automated deployment of Java applications, enhancing development workflows.
* Proficient in setting up cross-account data delivery using Kinesis Firehose delivery stream cross-account access policies and AWS Identity and Access Management (IAM) roles
* Proficient in Splunk REST API and SDKs for automating tasks, creating custom integrations, and extending Splunk functionality.
* Implemented RESTful Web Services for the data transportation between multiple systems
* Developed administrative interfaces with the technologies of JSP, JSF, Ember.js, backbone.js AJAX, and JavaScript.
* Developed various web applications /web pages using HTML5, CSS3, JavaScript, React.JS, Angular 2, NodeJS
* Designed various web concepts like security (OAuth, SiteMinder and OpenID), session controlling, storage
* Used Spring Tools Suite (Eclipse) with Vaadin Framework as the development environment
* on high-velocity data streams.
* Participated in debugging and troubleshooting Spark jobs, using logs and performance metrics to diagnose and resolve bottlenecks in distributed environments.
* Integrated OAuth 2.0 for authentication and authorization in your Java applications.
* Used repository like GIT/Github to maintain the version of the files and took the responsibility to do the code merges and creating new branch when new feature implementation starts.
* Deployed the application using RDS, AWS Elastic BeanStalk and monitor EC2 servers performance using CloudWatch.
* Implemented AWS solutions using EC2, S3, DynamoDB, EBS.
* Implemented and maintained monitoring and alerting of production and corporate servers such as EC2 and storage such as S3 buckets using AWS Cloud Watch.
* Applied security best practices, such as secure authentication, authorization, data encryption, and protection against common vulnerabilities (e.g., OWASP Top 10).

SR. JAVA DEVELOPER|**AGILE THOUGHT – Dallas, TX| 02/2016 - 03/2019**

* Used Java/J2EE Design patterns like MVC, Factory Method, Singleton, and Data Transfer Object (DTO) Service
* Identified and fixed bugs in the TypeScript codebase. Optimizing performance by improving code efficiency, reducing bundle size, and enhancing rendering speed where necessary.
* Designed and develop new features in website using Java/J2EE and enhance existing features.
* Leveraged Kafka Streams or KSQL for real-time stream processing and transformation of data within Java applications.
* Designed and implemented Rules infrastructure by wrapping up core JRules API.
* Used Java/J2EE Design patterns like Business Delegate, Session Façade, Data Transfer Object (DTO) and Service Locator in the project extensively, which facilitates clean distribution of roles and responsibilities across various layers of processing.
* Documented data processing workflows and Spark job configurations in Databricks.
* Developed analytical applications leveraging Hadoop and Spark for generating insights from large datasets, including trend analysis and predictive modeling.
* Developed and integrated Java applications with Apache Kafka for high-throughput, low-latency messaging and stream processing.
* Wrote unit tests and integration tests using tools like Jest or React Testing Library to ensure code quality and reliability and writing testable TypeScript code and ensuring proper test coverage.
* Developed business modules using Mybatis, JSP, Servlets, Struts, JSF, Hibernate & Spring Built Web pages that are more user-interactive using HTML, CSS, JavaScript, Node.js, Bootstrap and AngularJs
* Worked on the MySQL migration project to make the system completely independent of the database being used & database upgrade from oracle using JDBC, MS SQL, SQL Server, DB2, Coherence and TOAD.
* Developed test suites in Selenium WebDriver (Java) with Junit framework in Eclipse IDE.
* After fixing defects used SVN (Apache Sub versioning software) to check in the changes.
* Skilled in Splunk Cloud troubleshooting and performance tuning, including search optimization, index optimization, and query acceleration techniques.
* Pioneer application hosting on cloud infrastructure using Amazon Web Services AWS, EC2, S3, RDS
* Automated Spark job scheduling using Apache Airflow, improving the reliability and monitoring of data pipelines.
* Implemented security scanning in the CI/CD pipeline to identify and address potential security issues in dependencies and code.

JAVA DEVELOPER|**CDW - Vancouver| 06/2014 - 12/2015**

* Designed and developed the persistence tier using Java, J2EE, Spring, Struts, JSF, JSP, Servlets, NetBeans, Hibernate framework
* Used CVS to maintain source and version management and used Eclipse as IDE
* Deployment of the webservice converted java interfaces on a daily basis to a websphere testing environment for subsequent development of the front end
* Designed and developed scalable, multi-tier applications using J2EE technologies, including Servlets, JSP, EJB, and JDBC.
* Used Spring Core, Spring Web MVC, Spring ORM, Hibernate, Spring JDBC, and DAO, Spring AOP
* Developed administrative interfaces with the technologies of JSP, JSF, Ember.js, backbone.js AJAX, and JavaScript
* Skilled in automating deployment and management of Kinesis Firehose delivery streams using AWS CloudFormation templates and AWS SDKs
* Developed web presentation layer using HTML and CSS according to internal standards and guidelines
* Analyzed OOPS Design Principles in Client Server Application using MVC Architecture
* Responsible for designing and managing the Sqoop jobs that uploaded the data from Oracle to HDFS and Hive
* Designed and Developed the input/output data formats in XSD for the WSDL files and accordingly implementing services using Apache AXIS2
* Developed SOAP and HTTP Rest Web Services both in WMB and IBM Datapower
* Used Netbeans for development and WebLogic Application Server for deploying the web application
* Used version control and configuration management tools like SVN, CVS and Subversion
* Used JUnit framework for unit testing of application and Log4j to capture the log that includes runtime exceptions
* Designed Use Cases using UML and managed the entire functional requirements life cycle using waterfall model
* Strong understanding of AWS billing and cost management for Kinesis Firehose usage, including cost estimation, cost allocation tags, and cost optimization strategies
* Proficient in setting up data partitioning and partition key selection for Kinesis Firehose delivery streams to optimize data distribution and parallel processing
* Worked on development of infrastructure automation in AWS (EC2, S3, RDS) with AWS CloudFormation
* function to handle the results.
* Skilled in integrating Kinesis Firehose with AWS data governance and compliance services such as AWS Lake Formation and AWS Control Tower.
* Developed applications using Java and related technologies using WATERFALL and AGILE SCRUM methodologies
* Built servers using AWS, importing volumes, launching EC2, S3, RDS in the defined virtual private connection.

JAVA DEVELOPER | **CGI – Edmond, ALBERTA | 02/2012 - 05/2014**

* Used Java/J2EE Design patterns like MVC, Factory Method, Singleton, and Data Transfer Object (DTO) Service Locator.
* Designed and developed MicroServices business components and RESTful service endpoints using spring boot.
* Played a key role in the design and implementation of new features and enhancements using Java 11. Implemented GraphQL subscriptions to enable real-time data updates, enhancing user experience by providing live notifications and dynamic content.
* Implemented comprehensive error handling mechanisms in GraphQL APIs, ensuring clear and informative error messages for clients and facilitating effective debugging
* Worked on Java 1.8 coding with strong understanding of Java Spring, AWS Fargate, Spring Boot 2.x, Hibernate 4.x / 5.x, Collections, Multithreading, data structure and Event/Exception handling.
* Maintained Kinesis Firehose data streams that consume CloudWatch events and outputs to SSO, SSL and S3.
* Connected front-end components to backend APIs to handle data fetching and asynchronous operations using TypeScript’s async/await syntax or ES10 features like Promises.
* Designed and Developed User Interface using front-end technologies like HTML, CSS, JavaScript, JQuery, AngularJS, Bootstrap and JSON.
* Developed Web Java/J2EE application (JSP, EJB) using Struts/Tomcat/Xerces for Sybase Presentation tier was incorporated using JSP, HTML, CSS, AJAX and JavaScript.
* Involved in all phases of SDLC.
* Interacting with the client and analyzing the requirements to help and understand the requirements
* Designed Class diagrams, framework and developed Use case diagram and Sequence diagram
* Worked closely with product management teams to strategize design solutions, produced navigation flows and prototypes.

**Education**

BS From Modern college of commerce and science 2011