**Amena Khan**

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**630-521-5296**

**PROFESSIONAL SUMMARY:**

* Overall 9 years of Full Stack Developer experience in all stages of Software Development Life Cycle (SDLC), referring to design, development, testing and deployment of web-based and Enterprise business applications using OOP’s, Java/J2EE technologies.
* Proficient in implementation of spring frameworks like Spring MVC, Spring IOC/DI, Spring REST, Spring AOP, Spring Transaction Management, Spring Data, Spring DAO, Spring Batch.
* Experience in using Kibana and Splunk for dashboard for log data and creating charts for analysis. Proficient in implementing ELK (elastic search, Logstash, Kibana) for searching and server-side data processing pipeline to ingest data from multiple sources simultaneously.
* Experience in using various ORM’s for mapping objects to Databases like Hibernate ORM, Mongoose ORM. Proficient in using Spring JTA (java Transaction API) for transaction management to deal with more than one database, Spring Batch for automated complex processing of large volumes of information.
* Expertise in working with JAVA8 features like Functional Interfaces, Lambda functions, Stream API, Time API, Transaction Management, Exception Handling, Collection API.
* Good understanding of JavaScript ES-6 arrow functions, Object destructuring, block-scoped constructs, template literals, promises, multi-line strings and ES-7 async functions, Observables,Object Rest/Spread Properties.
* Good knowledge of configuration management in Spring cloud using Zookeeper. Expertise in using Spring Cloud-Netflix OSS stack for micro services deployment and auto configurations like Ribbon for client-side Load balancing.
* Expertise in using Hibernate ORM, Ibatis for implementing persistence context using JPA (Java persistence API) which is a first level cache. Implemented flushing for batch process in Hibernate. In Hibernate implemented second level cache using EH cache, OS cache, Swarm cache, JBoss cache.
* Hands on experience in publisher and subscriber model with queues (JMS with active MQS, IBMQ). Implemented a metrics collection mechanism for the server by utilizing Apache Kafka to stream server-side events.
* Strong experience in working with Relational databases like Oracle, MySQL, Microsoft SQL Server, PostgreSQL, IBM DB2 etc., and NoSQL databases like MongoDB, CouchDB, Gem Fire,Redis, HBase etc.
* Experience in developing various Web applications using Monolithic architecture using The technologies like Servlets, JSP, Structs, JSF, Spring I/O, Spring REST, and spring
* Security.
* Great knowledge of writing PL/SQL scripts for executing more than one query at a time. Proficient in creating views for tables, writing stored procedures, writing Triggers
* Strong Experience in working with JAVA based testing frameworks like JUnit, Selenium, TestNG, Mockito, Spock, and Cucumber; Power mock, MockMvc, etc.
* Experience in developing using RESTful Web services using JAX-RS API and Jersey framework. Developed Restful services with JAX-RS with Spring REST.
* Experience in SOAP using JAX-WS API ad Apache CXF framework and automated the documentation using Swagger and WSDL.
* Experience in developing User Interface with different technologies like HTML5, CSS3, and JavaScript. Developed applications with AJAX for handling asynchronous calls that follows W3C Web standards.
* Experience in working with various version controlling tools like Git, SVN, Bitbuckets, TFS, CVS and different Project management tools like JIRA, Rally, Microsoft Project.
* Good knowledge of implementing MVC architecture on client side using AngularJS, React with redux, React with flux, Backbone JS, Ext JS, knockout JS.
* Expertise in implementing MVVM architecture on client side using Angular 2.x and above versions with typescript 2.7.
* Expertise in working with Hapi.JS to build reusable application logic by avoiding spending time on building infrastructure.
* Expertise in developing applications using node JS Socket.io programming for persistence connection from client to the server.
* Hands-on experience working with NodeJS platform and using NPM for library management and BOWER for dependency management.
* Expertise in implementing Spring JTA for transaction management and Spring JDBC to interact with Databases.

**Technical Skills:**

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| **Programming Languages** | C, C++, Java, PL/SQL |
| **JavaScript Frameworks** | Angular JS, Angular 2+, jQuery, Node.js, Backbone.js, React.js, Express.js, Ember.js, Handlebars.JS |
| **Java/J2EE Technologies** | Servlets, Spring, EJB, JPA, JTA, JDBC, JSP, Thymeleaf, JSTL, Java 8 |
| **Frameworks** | Struts 2.0/1.0, Hibernate 4.x/3.x, Spring 3.0, Spring Batch, Spring Security, Spring AOP, Spring Core, JSF, iBATIS, Spring IOC |
| **Web Technologies** | HTML, HTML5, CSS/CSS3, AJAX, jQuery, Bootstrap, XML, Grunt, Gulp, JSON. |
| **Database** | SQL Server, MySQL, Oracle, Mongo DB, DB2 |
| **Cloud Technologies** | Amazon EC2, S3, simple DB, Elastic Load Balancing, SQS, EBS, cloud front, EKS and PCF. |
| **Web Services** | XSD, WSDL, Apache Axis, SOAP, Restful, GraphQL, JAX RS, JAX WS |
| **Messaging** | JMS (Java Message Service), IBM MQ, Apache Active MQ, Apache Kafka |
| **Web Servers** | Oracle WebLogic 10.x/9.x, IBM WebSphere 8.x/6.x, Apache Tomcat 8.0/7.x/6.x |
| **Application Servers** | Apache Tomcat, WebLogic, IBM WebSphere, JBoss |
| **Methodologies** | Agile, Waterfall, OOAD, SCRUM |
| **Testing Tools** | JUnit, Mockito, Jasmine, Karma, Mocha, Chai, Selenium |
| **Version Control** | SVN, CVS, GIT,GITLAB |
| **Build Tools** | Maven, Gradle, ANT |
| **IDEs** | Eclipse IDE, RAD 6.0/7.0, IntelliJ IDEA, Spring Tool Suite (STS) |
| **Operating Systems** | Windows, Linux and UNIX |
| **Software** | Visual Studio, Rational Rose and Microsoft Office |

**PROFESSIONAL EXPERIENCE:**

**Client: American Express - AZ Dec 2019 - Present**

**Role: Java Full Stack Developer**

**Responsibilities:**

* The application is built in Micro Service Oriented Architecture using MEAN 4+ (Mongo, Express Angular 8.0 and Node) stack and developed Single Page Applications (SPA).
* Developed multiple Angular 11.0 components that are compatible with the latest versions of typescript, angular CLI.
* Designed the user interface screen and its functionality as per user requirements and developed RESTful Web services in Mule ESB based on Service Oriented Architecture (SOA).
* Used different transformers, exception handling, testing &amp; Security of MuleSoft ESB endpoint through OAuth.
* Designed and developed efficient user Interaction screens using HTML5, CSS3-SASS, and Twitter Bootstrap CSS framework and media queries to create responsive web pages.
* Created dynamic schema design through NoSQL MongoDB by writing rich queries and achieved data in a collection to be distributed across multiple systems for horizontal scalability as data volumes increase through Shading.
* Implemented Java11 features like Lambda expressions, Streams, filters, pipelines, Optional Interfaces, etc.
* Hands-on experience using ODM frameworks to connect asynchronous environments with Mongoose Connector and Cassandra Node Driver.
* Experience in configuring and deploying Web Applications using IBM WebSphere server, JBoss, Tomcat server and Apache.
* Worked with KAFKA Zookeeper for managing the cluster with broker/cluster technology.
* Wrote Drool rules in both rule flow and drooled fusion for fetching the facts from the database.
* Performed manual and regression testing using JIRA X-RAY tests, writing the scenarios.
* Experience in Java11 features like Parallel Streams, Lambdas, functional interfaces, and filters.
* Used Cassandra for storing internal statements and reports and worked extensively in Development which includes updating and retrieving data internally from the back-end Cassandra.
* Configured and managed various AWS Services, including EC2, RDS, VPC, S3, Glacier, CloudWatch, CloudFront, Route53, SQS, SNS, etc.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Shading, replication, schema design.
* Used Node.js and Express.js to develop the relevant back end RESTful API.
* Extensive use of Node.JS, Express JS, and Mongo DB along with Mongoose to create server-side applications.
* Made use of Reactive Forms using Angular 8.0 where most of the validation is done using component rather than using template-driven which provides in HTML.
* Experienced in developing and consuming web services (SOAP and RESTful) with Struts and Spring.
* Experienced in developing, deploying, and managing web-based applications using Java 11.
* Involved in writing test cases using jasmine-karma, Test Bed and maintained a stable code coverage with maximum threshold.
* Experience with multiple Servers like Apache Tomcat, IBM WebSphere, WebLogic, Sun Glass fish and JBoss.
* Implemented the complete set up with configuration file changes from Angular 6 to Angular 8. While migrating the project which involved converting angular components and updating router Modules.
* Worked with Jenkins to configure Continuous Integration and Continuous Deployment (CI/CD).
* Developed single page applications using React Redux architecture, ES6, web pack and grunt.
* Participated in code review and mentoring sessions and used GIT as version control and GIT Bash for GIT interactions.
* Experienced in implementing the Node.js server-side code along with the Express framework to interact with MongoDB to store and retrieve data by using the Mongoose package.
* Used MongoDB internal tools like Mongo Compass, Mongo Atlas Manager &amp; Ops Manager, Cloud Manager etc.
* Designed, implemented and tested the Spring Domain Model for the services using Core Java.
* Developed and configured JMS components in WebLogic Application Server.
* Experience in working with Graph QL queries and use the Apollo Graph QL library.
* Experience working with (consuming) REST or Graph QL APIs via client-side JavaScript or server-side via NodeJS.
* Programmed J2EE application to manage transaction reports for Oracle Financials Application Processes.
* Authenticating Users to provide security to Rest Ful web services using OAUTH 2.0.
* Worked on UI testing with Karma, Jasmine, Protractor for Angular, Mocha, and Chai for React JS and Backbone JS.

**Environment**: Java, Angular 11.0, J2EE, Git, Hibernate, Spring Boot, Core Java, Rest, Web Services, CSS, Eclipse

RCP SASS, WSDL, JIRA, JMS, PostgreSQL, Spring Cloud, Spring batch, PCF, Apache JMeter, jQuery, JUnit.

**Client:Gi Lead – CA Feb 2018 – Nov 2019**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Developed a set of the application functionality using CRUD (Create, read, update, delete) features of backbone.js.
* Used backbone.js to create Controllers to handle events triggered by clients. Used backbone.js to bind event handlers using listenTo().
* Used backbone.js as Model, Widgets as Controller and jQuery template as View.
* Developed RESTful Services and Web Service Clients (JAX-RS or JAX-WS) using jersey framework with data representation in different formats such as XML and JSON.
* Participated in front end development using JSF 2.0, JavaScript, HTML 5, CSS 3.0.
* Extensively used CSS and Bootstrap for styling the HTML elements.
* Developed dynamic web pages using HTML5, CSS3, Bootstrap, Less, CSS3(SASS) and AJAX.
* Used JQuery for view rendering of the web pages.
* Experienced in developing multithreaded applications using the Concurrency API in Java 11.
* Implemented second level cache using Oracle Coherence for IBatis.
* Worked extensively with persistence context (JPA) implemented by IBatis.
* Designed, configured and deployed Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack (Including EC2, S3).
* Integrated App Dynamics APM with AWS services and monitored the EC2 instances health on APP Dynamics.
* Gulp used for modification of JavaScript files and for monitoring the application.
* Developed SOAP services with JAX-WS using Apache CXF framework with data representation in XML format.
* Worked with creating WSDL Documentation to act as a agreement between producer and consumer of the Web service.
* Involved in migrating code from SOAP to RESTful services.
* Written IBatis Criteria queries for data retrievals and have performed the ORM mappings to map java entities to database tables.
* Written Mockito test scripts to automate the unit testing process.
* Worked with Jenkins for Continuous Integration and Continuous Deployment (CI/CD).
* Worked on Docker. Creating Docker images and configurations using Docker file, worked with Docker cli to build, pull and push images to Docker registry. Created a Docker hub which allows us to link our code repositories
* Created automation framework and test scripts using Selenium Web-Driver for multiple platforms and browsers testing.
* Project code build is done using MAVEN tool.

**Environment**: JAVA, J2EE, Core Java, JSF, AJAX, JavaScript, Apache CXF, Rest Service, Jax-RS, WSDL, JQuery, Karma and jasmine, Multithreading, AWS, HTML5, CSS3, Ajax, ORACLE, IBatis, Docker, Mockito.

**Client:** **Brinker International - TX Dec 2015 – Jan 2018**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Developed a Micro Service architecture application based on the MEAN Stack using MongoDB, Express JS, Angular 12.0 and Node JS.
* Effectively used Angular Directives, filters, declarative templates, service providers and context aware communication.
* Used Spring beans to encapsulate business logic and implemented application MVC architecture using spring MVC framework.
* Simplified asynchronous calls to the backend REST API's by implementing Angular 12 Observables and Listeners from RxJS reactive libraries and worked on Behavioral Subject, MergeMap, ConcatMap.
* Worked on Reactive Forms, Template-Driven and Model Driven forms mechanism by adopting @NgRx/store and @NgRx/effects which optimizes the storing and state of the data while navigating between the forms in application.
* Implemented responsive design, themes and templates using Bootstrap4 and developed Web applications for backend systems using Angular12 and Node.js with cutting edge HTML5 and CSS3 techniques.
* Implemented Synchronization with the help of Angular Data binding(ngModel) concept, displayed data with the help of binding controllers in the UI and worked with Angular12 Filters, Services and Directives (Structural, Attribute).
* Used Apache Kafka as a streaming service to publish messages from the current application as well as consume messages from other applications.
* Web pack module bundler and Babel JavaScript compiler are used accompanying React JS.
* Made use of React JS to build Bootstrap components for responsive UI objects and linked with API data to view and render the virtual DOM dynamically.
* Responsible for the overall layout design and prototype using React JS with Redux library, jQuery UI, and CSS/Less and HTML5.
* Implemented Node JS as a server-side proxy for an event-driven, non-blocking I/O model to make the application lightweight and efficient.
* Extensively worked in writing minimal code in building re-usable forms with their validations using REACT with Redux Architecture.
* Worked with executed unit test cases by using JUNIT for accuracy of code and logging with log4j.
* Developed JUnit test cases for all the developed modules. Used CVS as version control Tested Web Services, Validated Request and Response XML, SOAP Calls, Restful calls and WSDL using SOAPUI tool.
* Created automation scripts in SOAPUI using Groovy Script for web services testing.
* Tested SOAP web services by using SOAP UI tool
* Created API automation test scripts using Postman API and Java Script / Newman command-line collection runner.
* Developed scenario based testing for the JMeter scripts.
* Create, schedule and run the scenarios using JMeter and generate necessary graphs
* Extensively worked on JMeter to create Thread Groups and test Web Application for various loads on key business scenarios.
* Created online PDF forms using Adobe Live Cycle ES2 Designer, some XML & JAVAcoding.
* Executed A/B testing for sites and campaigns to increase conversion rates and maximize user experience using Adobe Target
* Implemented Adobe Target implementation and performing A/B testing campaigns to increase conversion rates and maximize user experience.
* Developed Spring Boot REST API endpoints implementing messaging queue for supply chain delivery.
* Used Spring Data JPA with Hibernate to build server side for daily transactions and used JDBC to process end of day jobs to improve the performance.
* Used Spring Boot which is radically faster in building cloud Microservices and developing Spring based applications with very less configuration.
* Used Spring Boot Actuator to externalize application's configuration properties for different environments.
* Worked on Spring Cloud features like spring config for centralized configuration and used Ribbon for client-side load balancing, Netflix Eureka Server, Zuul API Gateway, Hystrix.
* Developed REST API services using Node JS, Express JS, Body-Parse and other node modules to serve the web application with JSON data.
* Experience in Docker Engine and Docker Machine environment, to deploy the micro
* services-oriented environments for scalable applications.
* Implemented Authentication & Authorization with SiteMinder, configured user sessions to support for single and multiple domains SSO.
* Designed, built and deployed applications using the AWS stack (Including EC2,
* MongoDB, Docker, Kubernetes Orchestration container (EKS)) focusing on highavailability, fault tolerance and auto-scaling.
* Configured Apache Kafka Consumer and Producer metrics to visualize the Kafka system performance and monitoring.
* Deploying the applications using Docker container services and building continuous integration (CI) and continuous deployment (CD) pipeline using Jenkins with GitHub.
* Utilized Hibernate-ORM to map order data with database tables and enabled Hibernate second level cache using EhCache to enhance the performance of history order data retrieval.
* Used OAuth2.0 with OpenID for authentication and authorization.
* Responsible for maintaining the unit test case using the JUnit4/5 and Mockito, PowerMock framework while using Git and Bitbucket as source code repositories.
* Performed automation using Jenkins and used Git and Bitbucket as a source code repository.
* Used a JFrog repository to store artifacts and used WebSphere as the server.
* Used Docker for deployment and Kubernetes to orchestrate Docker containers and configured pods.
* Configured and deployed the project on EC2 instances and collaborated with the DevOps team for SIT, QA and Production deployments.
* Worked on AWS S3 for storage of data and created IAM roles with S3 access and integrated it to EC2 instances.
* Performed data storage on AWS using AWS RDS feature and used Oracle 11G as a database for transactions.

**Environment**- HTML5, CSS3, Angular12, Typescript, JavaScript Bootstrap 4, Mockito, JavaScript, Maven, Splunk, Git, Bitbucket, Docker, Kubernetes, AWS, EC2, Junit, SOAPUI, Postman, JMeter,

Adobe Experience Manager

**Client: Advanced Auto Parts, Ohio Sep 2013 – Nov 2015**

**Role: Java Developer**

**Responsibilities:**

* Managed application state using server and client-based State Management options.
* Coded Java Script for page functionality and Pop up Screens.
* Implemented AJAX functionality using JQUERY, JSON and XML.
* Used Spring Transactions in the application and developed Session beans for the business logic at the middle tier level. Extensively used JQUERY UI library to create various components for the web application.
* Used Bootstrap to give solid visual properties.
* Developed the front-end in HTML/CSS including Bootstrap and Vue.js.
* Performed Unit Test using Jasmine test framework.
* Designed new classes, functionalities using JQUERY components for CRM application for customer service.
* Wrote extensive HTML, CSS and JavaScript code to build dynamic pages using Eclipse.
* Developed and designed the various screens and its architecture in accordance to UI Specs.
* Maintained and manipulated databases for XML parsing for applications in MYSQL.
* Wrote application level code to interact with the backend (Java) code AJAX and JSON.
* Worked on various features in ECMAScript 6 (ES6) such as Arrow functions, Classes and enhanced object literals and developed various screens for the front end using React JS and Redux libraries
* Designed dynamic user interfaces using AJAX and jQuery to retrieve data without reloading the page and send asynchronous requests.
* Designed and developed the REST based Micro services using the Spring Boot, Spring Data JPA and Authentication for Restful services using OAUTH 2.0.
* Created various MongoDB collections and wrote services to store and retrieve user data for the application on devices and used Mongoose Connector to access the MongoDB.
* Developed application on Spring framework by utilizing its features like Spring Dependency injection, Spring Beans, Spring Security, Spring JPA, Spring AOP, Spring IOC, Spring Web flow for reactive programming.
* Experienced in implementation of JMS to exchange information over reliable channels in an asynchronous way by using RabbitMQ as a message queue.
* Developed a Micro Service architecture application based on the MEAN Stack using MongoDB, Express JS, Angular 12.0 and Node JS.
* Effectively used Angular Directives, filters, declarative templates, service providers and context aware communication.
* Used Spring beans to encapsulate business logic and implemented application MVC architecture using spring MVC framework.
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* Implemented Adobe Target implementation and performing A/B testing campaigns to increase conversion rates and maximize user experience.
* Developed Spring Boot REST API endpoints implementing messaging queue for supply chain delivery.

**Environment:** Java, J2EE, JDK 1.8, JDBC, Servlets, JSP, Struts, Hibernate, Spring, Web Services REST , JAX-RS, JSP, jQuery, JSON, AJAX, HTML, JavaScript, WebLogic server, Eclipse, Agile, JUnit, Log4J, Spring JPA

**Education:**

* Bachelor of Science from Benedictine University.