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| **Tharun Kumar Bairaboina**  **Software Engineer** |  | **Professional Experience:** |
| **Professional Summary**  ***As a Software Engineer, my primary objective is to analyze, design, develop, test, deploy and maintain enterprise and web based applications using different technologies in each phase of software development life cycle. Seeking to leverage by interpersonal analytical skills and ability to coordinate with team members and cross functional teams for successful delivery of solutions which add value to business.***  **Employer Contact**  **Phone:**  770-872-7576  **Email:**  [prabhu@vsiiusa.com](mailto:prabhu@vsiiusa.com)  **LinkedIn Profile:** [**www.linkedin.com/in/btharunkumar02**](http://www.linkedin.com/in/btharunkumar02)  **Technology and Skills:**  **Languages:**  Java, J2EE, SQL, PL/SQL  **J2EE Technologies/ Tools& Framework:**  Java, J2EE, RMI, Sockets, JDBC, Servlets, JSP, JMS, Java Beans, Struts, JSF, EJB, Spring, Hibernate, JPA, Struts, Spring, Hibernate, Spring MVC, Spring boot, Spring Web Flow, Spring IOC, Spring AOP, Spring Security, JSF, Junit, SOAP UI.  **Web services:** SOAP, Restful, JAXP, JAXB, JAX-RS JAX-WS, WSDL, JMS and Service Oriented Architecture (SOA). JAX-RPC, JAX-B and Micro Services.  **Web** **Technologies:** HTML5, CSS3, JavaScript, jQuery, React-JS, Angular, AngularJS/2/4, XML, Bootstrap, NodeJS.  **Cloud Technologies:** Amazon Web Services (AWS), S3, AWS Lambda, EKS, ECS, ELK.  **Databases:** Oracle, MySQL, IBM DB2, SQL server, MongoDB, Cassandra.  **Build/Testing Tools/****Others:** Maven, ANT and Jenkins, JUnit, Mockito, Soap UI, Log4j and JIRA.  **Version Control:** Git, GitHub, Bitbucket and subversion (SVN).  **OS & Environment:** Windows, UNIX, Linux, Mac  **EDUCATION DETAILS:**  **Master’s from Southern Arkansas University -** Arkansas**-** 2017  **Bachelor’s from Nalla Narasimha Reddy Group Institutions, JNTU** – 2015 |  | * Having around **9** **years** of IT Experience in **Project analysis, Design, Development, Testing and Deployment** of Enterprise and Web Based Applications using **Java/J2EE and Spring Eco System.** Actively involved in each phase of **Software Development Life cycle** (SDLC). * Exceptional skill set in **Data Structures** (Stacks, Queues, List, Set, Map, Trees, Graphs), **Algorithms** (Searching, Sorting, BFS, DFS), logic building, and problem solving. * Expert in **Core Java** with strong understanding of **Garbage Collector, Collections, Multithreading, Event handling, Exception handling and Generics.** * Expert in **JAVA 8** features with hands on development experience in using **Stream API** and **Lambda Expressions** to retrieve the data from Collections using **Functional Interfaces**. * Developed custom **Kafka** producers and consumers in Java for handling real-time data streams. * Experience in building web and enterprise applications using spring framework features like ***Spring MVC, Spring* Reactive, Spring ORM, Spring Data, Spring AOP, Spring Security, Spring Core, Spring Boot, Spring Batch**. * Experience in data access using **Spring Data JPA, Hibernate** and **CRUD** operations with Oracle 12c and **My SQL.** * Professional experience in relational database management (RDBMS) using **MySQL, Oracle DB, and SQL server** Experience in data access technologies like **DDL**, **DML**, **PL/SQL**, and **Stored Procedures**. * Experience in working with the NoSQL DBs like **MongoDB**, and **Cassandra** to manage extremely large data sets. * Expert in developing **RESTful** web services using **Spring REST**, Spring Boot and **Eclipse Jersey**. API testing using **Postman** and **SOAP UI** tools. * Extensive experience in using build tools (**Maven**, **Gradle**), data exchange formats (**XML**, **JSON, SOAP**), data conversion technologies (**JAXB**, **JAXP**, **SAX**, **DOM**), web services (**JAX-RS**, **JAX-WS**, **WSDL**, **SOA**). * Experience in enterprise level NodeJS programming. Developed applications using **Node JS** framework (**Express JS), Mongo DB.** * Expert in **Gang of Four Design patterns** such as Creational DP (**Singleton, Factory, Abstract Factory, Builder**), Structural DP (**Bridge, Facade, Decorator**), Behavioral DP (**Template, Observer, Strategy, Visitor**) * Experienced in developing messaging modules by using **Spring JMS**, **Apache Camel**, **Kafka,** **Active MQ** and **Rabbit MQ**. * Expertise in client-side technologies like **HTML5, CSS3**, **JavaScript, Bootstrap, jQuery, JSP, Node JS, AJAX, Socket programming** and **AngularJS/Angular framework.** * Good knowledge of developing **GUI** based applications using **Swings** and **Java Applets**. Developed UI modules using **AngularJS/angular2/4/5, Node.js, JavaScript, jQuery, CSS3** and **HTML5** * Worked on **Angular** by consuming RESTful web services & Used **Angular** forms like Template Driven forms and Modern Driven (Reactive) forms to perform form validations both on server and client side. * Experience in developing cloud-based applications using **Amazon Web Services (AWS).** * Experience in container technologies like **Docker**. Wrote docker scripts, created docker images in deploying applications on docker. * Experience in **continuous integration** using **Jenkins** for timely builds, code coverage, running tests. |

**PROFESSIONAL EXPERIENCE**

**Client: Bank of The West Feb 2022- till date**

**Location: Phoenix, AZ Jan 2020- June 2021**

**Role: Full Stack Java Developer**

**Description**: This application provides end-to-end payment services for commercial and corporate banking customers. This is the core platform which provides all payment services, special services, and billing features. Customers have different channels to process their services such as host to host, mobile, web services, and e-Banking.

**Responsibilities:**

* Participated in business meetings, grooming’s to gather functional requirements and cleared any blockers in implementing the requirements.
* Discussed requirements with architecture for better understanding of the technical requirements to avoid any blockers beforehand.
* Implemented Automated **Billing solution** for all commercial customers using **Spring Batch, Spring Boot and Spring Reactive, Spring JPA, and Oracle DB**. This solution **reduced** the manual burden as well as **time and cost.**
* Developed **RESTful API’s** using **Spring MVC, Spring REST, Eclipse Jersey** framework. These APIs are extensively used by other applications in the project. Used **SOAP UI, Postman** for API testing.
* Developed services for customers using Spring Core, and Spring Boot. Extensively used **PDF template** libraires such as **Jasper Soft Professional** for customer payment information generation.
* Experience in using Enterprise integration frameworks such as **Apache Camel**. Developed **Routes** using Camel framework to move files from SFTP servers, Message queues, to application servers.
* Migrating production infrastructure into Amazon Web Services utilizing **AWS** Cloud formation, Chef, Jenkins, and Docker.
* Automated AWS services, which includes web servers, ELB, Cloud front distribution, database, ec2 and database security groups, S3 bucket and application configuration.
* Developed Email service application for the project using **Spring Core, spring Boot, Spring JPA, Swagger** and **Java8**. This is widely used in the project to send emails to customers.
* Extensively used **Java 8** features such as **functional programming**, **Lambdas**, **Stream**, **Multi-threading** Method referencing in development of all these services and features.
* Implemented asynchronous programming patterns using Java's **CompletableFuture** and other libraries to improve application responsiveness.
* Experience writing shell Scripts in **Linux**, and **groovy** for automating the regular tasks.
* Designed and developed Relational **database schemas**, **Tables, views, indexes, and constraints** for easy and fast retrieval of data from Oracle DB.
* Used **Angular** for delivering user experiences such as high performance, off-line accessibility, and zero-step installation.
* Experience in writing complex **PL/SQL** queries using joins, Stored Procedures, Functions, Triggers, cursors, and indexes in Data Access Layer.
* Worked closely with back-end team to implement **AJAX call** to **REST APIs** and update dynamic functionality of **HTML** in **Angular**
* Involved in identifying and implementation of different **J2EE design patterns** like **Service Locator**, **Business Delegate**, **Factory pattern**, and **DAO.**
* Integrated Apache **ActiveMQ** with various Java frameworks and middleware technologies for seamless data exchange and system integration.
* Built the reusable service components using **Angular** **JS** services with Object Oriented **JavaScript**, **jQuery**, **HTML**, **CSS3** based on the visual designs.
* Experienced in **RDBMS** such as **Oracle**, **PL/SQL**. Used Mongo DB for proof of concept and having experience in creating Stored **Procedures** and having experience in Remote Procedure call (RPC).
* Experience in writing unit test cases using **JUNIT5, Mockito** and **power mock**.
* Developed applications using **MAVEN**, **GRADLE** build tools, and used **Log4J**, **SLF4J** Logging frameworks.
* Was responsible for analyzing the issues, providing technical & functional support to the users and fixing them.
* Involved in Writing and Executing **SQL Scripts** and responsible for fixing the issues and monitoring it to make sure it releases in time.
* Collaborated with testers and developers and prepared test plans for producing high quality software applications.

**Environment:** Java1.8, Angular, Linux, Shell script, Apache Camel, Spring Batch, Spring Boot, Spring Security, Spring Data, Hibernate, Groovy, JDBC, Restful, AWS, XML, SQL Server, DynamoDB, Microservices, GIT, SVN, Splunk, AWS, JUnit, Maven, Gradle, JIRA, Agile/Scrum Methodology.

**Client: CapitalOne July 2021 - Feb 2022**

**Location: Chicago, IL**

**Role: Software Engineer**

**Responsibilities:**

* Coordinating with client, business analyst and senior developers to analyze the requirements and develop the application. End to end responsibility for coding, testing and deployment in prod.
* Documenting the requirements and thereby analyzed and involved in design, code.
* Developing the application using Spring Framework modules like Spring boot, Spring Security, Spring ORM, Spring JDBC and Spring Data JPA.
* Implemented Microservices Architecture, with Spring Boot-based services interacting through a combination of REST, SOAP.
* Used java 1.8 features like stream, Lambda expressions, functional interface, collections type annotations.
* Involved in deploying AWS Solutions using EC2, S3, EBS, IAM, Elastic Load balancer (ELB) and auto scaling groups.
* Build REST web service by building NodeJS Server in the back end to handle requests sent from the front-end jQuery Ajax calls.
* Worked on Backend/Server-side coding by implementing NodeJS.
* Participated in Spring planning and PI planning’s to discuss the tech debts & backlogs to prioritize the work. Attended the Grooming sessions to determine the story points and the technical strategy for the sprint iterations.
* Worked on designing the Splunk dashboards for different applications owned by our platform by enhancing the necessary logging for peak season readiness.
* Apart from unit testing worked on ATDD and BDD style development and used cucumber framework for behavior testing and integration testing by writing feature file in gherkins.
* Participated in designing and development of a serverless application using Nodejs and Aws lambda using DynamoDB and SQS as main Aws services.
* Create and configured the continuous delivery pipelines for deploying Microservices and lambda functions using CI/CD Jenkins server.
* Designing and implementation of continuous integration, continuous delivery, continuous deployment through Jenkins.
* Used Microservice Architecture, with Spring Boot-based services interacting through a combination of REST.
* Used Maven tool to build and package, deploy an application project and integrated with Jenkins.
* Used Log4j, SLF4J Logging frameworks to track the logs from the server and participated in remediation of Log4j vulnerability.

**Environment:** Java1.8, Nodejs, JavaScript, AJAX, NodeJS, JSP, Spring MVC, Spring Boot, Spring Security, Spring Data, Hibernate, Gherkins, Cucumber, JDBC, Restful, OAuth2, XML, MYSQL, DynamoDB, Microservices, GIT, Splunk, AWS, JUnit, Maven, JIRA, Agile/Scrum Methodology.

**Client: Citi Bank Jan 2018 - Dec 2019**

**Location: Tampa, FL**

**Role: Java Full Stack Developer**

**Responsibilities**:

* Involved in various phases of Software Development Life Cycle (SDLC), including requirement gathering, modelling, analysis, architecture design, prototyping, developing, and testing.
* Utilized Java 1.8 features like Lambda expressions for collection evaluation and comparing the data, Stream API for Bulk data operations on Collections which would increase the performance of the Application, Parallel operations on collections for effective sorting mechanisms and to change the sequential stream flow of threads while session establishment and multi-threading.
* Experience in Apache Kafka architecture, including brokers, topics, partitions, and consumer groups.
* Implemented message serialization and deserialization strategies for efficient data transfer.
* Utilized Kafka Streams for real-time data processing and analytics within the Kafka ecosystem and Optimized Kafka configurations for high throughput and low-latency message processing.
* Involved in development of REST Web Services using Spring MVC to extract client related data from databases and implementing Microservices to base on RESTful API utilizing Spring Boot with Spring MVC.
* Using HTML5, CSS3, JavaScript, jQuery, Bootstrap and Angular5 created GUI interface of the web page.
* Created custom directives and components which extend the elements and modules of Core AngularJS.
* Created AngularJS controllers, services and used Angular filters for filter functionality in search box and integrator functionalities.
* Used Angular routing to define the routes in JSON files and Angular factory providers, services to make Restful calls to get data in JSON format.
* Implemented Angular Router to enable navigation from one view to the next.
* To get AJAX functionality for the website wrote JavaScript and jQuery programming.
* Connected to Data sources and performed operations using Spring Data Framework features like Spring JDBC and Spring ORM.
* Integrated Spring DAO for data access using Hibernate to fetch data from database and avoid redundant database access statements.
* Created and presented training materials surrounding adoption of the Groovy language.
* Implemented Microservices Architecture, with Spring Boot-based services interacting through a combination of REST, SOAP.
* Extensively used HQL and SQL for querying databases.
* Conducted performance testing and tuning to ensure optimal Kafka cluster performance.
* Develop, run and scheduled queries using SQL and T-SQL scripts.

**Environment:** Java1.8, HTML5, CSS3, Bootstrap, JavaScript, AJAX, AngularJS, NodeJS, JSP, Spring MVC, Spring Boot, Spring Security, Kafka, Spring Data, Hibernate, JDBC, Restful, OAuth2, JAX-RS, Jersey, XML, SQL, Oracle, MongoDB, WebSphere, Microservices, GIT, JUnit, Maven, JIRA, Agile/Scrum Methodology, Angular.

**Client:** **UMB Financial Corporation Feb 2016 - Dec 2017**

**Location: Kansas City, MO**

**Role: Java/ J2EE Developer**

**Responsibilities**:

* Developed the J2EE application based on the Service Oriented Architecture and used new features of Java 1.6/1/7 like Annotations, Generics, enhanced for loop and Enums etc.
* Developed the functionalities under Agile Methodology, JIRA processes and used JIRA for task assignment, bug tracking and fixture.
* Used Design Patterns like Singleton, Factory, MVC, Front Controller, Service Locator, Session Facade and DAO.
* Developed web services using Spring framework and Jersey REST and exposed the data to the UI in JSON format.
* Consumed Restful web services using Spring REST Template for the data coming from external systems.
* Implemented Rest based services using JAX-RS annotations, Jersey as provider and implemented security using OAUTH.
* Designed and developed Business components and Integrated with Spring framework and developed various Spring Boot reusable Helper and Utility classes, which are used across all the modules of the application.
* Developed Spring Batch application for batch processing using spring4.0 and improved the performance of the backend batch processes using Multithreading and concurrent package API.
* Developed and maintained multithreaded applications to enhance system responsiveness and optimize resource utilization.
* Created and injected Spring services, Spring controllers and DAOs to achieve dependency injection and to wire objects of business classes.
* Used Spring Inheritance to develop beans from already developed parent beans.
* Used DAO pattern to fetch data from database using Hibernate to carry out various database specific operations and avoided redundant database access statements and thus achieved decoupling and flexibility.
* Collaborated with team members to streamline CI/CD processes for continuous delivery of updates on OpenShift.
* Used Hibernate Transaction Management, Hibernate Batch Transactions, and Hibernate cache concepts.
* Worked on core AWS services such as Setting up new server (EC2) instances/services in AWS.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Used AJAX extensively to implement front end /user interface features in the application and implemented SOA to develop Web services using Apache Axis.
* Worked closely with QA team and fixed QA bugs as well as production issues with a quick turnaround time.
* Focused on Test Driven Development thereby creating detailed JUnit tests for every single piece of functionality before writing the functionality.

**Environment**: J2EE, Java 1.6/1.7, Spring framework 4.x, Spring MVC, Microservices, JSP 2.0, OpenShift, Servlets 2.3, Hibernate4.2, AJAX, Web services, SOAP, Java Beans, Apache POI, jQuery, JavaScript, Oracle 10g, IBM RAD, WebSphere, GIT, Restful, Apache Maven

**Client: EBay Jan 2015 - Dec 2015**

**Location: Hyderabad, India**

**Role: Java Developer**

**Responsibilities**:

* Analyzed and modified existing code wherever required and responsible for gathering, documenting, and maintaining business and systems requirements, and developing designs document.
* Designed the applications using Spring MVC framework for easy maintainability.
* Used spring framework for dependency injection with the help of Spring Configuration files.
* Coded Business services using spring and interacted with the database using Spring JDBC, Spring DAO.
* Implemented Hibernate to map all the tables from different data sources.
* Designed the Front-end screens using JSP, Servlets, XHTML, JavaScript and React.
* Design & Development of User Interface module using J2EE, JSP, JSTL, Servlets and Spring Framework.
* Involved in the Maintenance and Code changes from existing code, Support of the System.
* Developed certain features of the application functionality i.e. CRUD (Create, read, update, delete) features using and Responsive Design.
* Implemented Java multithreading, including the creation, synchronization, and management of threads.
* Extensively used JQUERY, JSON, AJAX and DOM scripting to create interactive web applications like message posting and auto complete form validations.
* Involved in using React JS components, React-DOM, Babel-webpack concepts.
* Developed Admin portal using React Router, React Redux using Redux-Thunk.
* Coded extensively using JavaScript MVC Framework to make rich internet web applications.
* Created several Exception classes to catch the error for a bug free environment and orderly logged the whole process using log4j, which gives the ability to pinpoint the errors.
* In database end, responsibilities for creation of table’s sub-queries, joins, integrity constraints and views.

**Environment:** Java/J2EE, JSP, ReactJS, Spring 4.1, Hibernate 4.2, HTML, JavaScript, XML, Junit 4,jQuery, Ajax, Log4j, SQL Server 2012, Web Services, Clear Case, ANT, HP ALM quality center 11.