**Venkata Lakshmi Narasimha Raghu Kandukuri**

518 428 5310

Raghu.kandukuri@yahoo.com

**Experience SUMMARY:**

I have a total work experience of 13+ years of experience in software development, Maintenance and support using Java/J2EE technologies.

My main area of expertise is with Design, Application development, Testing and performance optimizing the application, Platform integration, Migration and post implementation support. Currently working on the Renewables domain in the recent past. My main technical stack is Java.

* Performance Optimization – Have a very good expertise on the doing performance optimizing the existing Java applications.
* Platform Integration – Having good experience in integrating different applications to AWS platform
* Migration – Having good experience in migrating the old legacy application to the AWS platform.

**Key Roles and Responsibility:**

* **13+** years of experience in **Java, J2EE Technologies.**
* Experience in Java frameworks like **Springboot, Spring, Hibernate, JPA.**
* Currently working on moving the existing micro services from Java 8 to Java 11.
* Experience in J2EE technologies like **JSP**, **servlets** and **JDBC.**
* Experience in frontend technologies like **HTML, JavaScript.**
* Expertise in **core java** and concepts like **OOPs Concepts, Collections**.
* String Programming skills in Design and implementation of applications using **Core Java, J2EE, JDBC, JSP, HTML, Spring boot, Spring framework**.
* Experience in **Java Lambda Expressions.**
* Experience in java build tools like **Maven, Jenkins, Propel**
* Experience in **SOAP and Restful Services, Micro services**.
* Experience in **Junit Testing and Power Mockito**.
* Experience in **AWS cloud, AWS data pipeline and AWS Managed Streaming for Apache Kafka, EC2 deployment, Kubernetes, Docker**.
* Experience in AWS transformation from predix applications.
* Experience in **UNIX, Linux and Cloud infrastructure**.
* Having experience in **AWS Dynamo DB, AWS Redshift, PostgreSQL** and Document DB like **Mongo DB.**
* Worked on a multi-threading environment by implementing Semaphores and callable interfaces.
* Worked on multi-threading for fetching the multiple KPI data.
* Knowledge and working experience on Software Development Life Cycle **(SDLC)** & **Agile** Software Development Life Cycle.
* Worked on Test Driven Development (TDD).
* Experience in developing UI web applications HTML 5, Java Script, jQuery and follows W3 standards.
* Extensively involved in activities like Requirement Analysis, High level and Low-level design, Coding, Unit Testing, **QA** Support, Implementation and Production Support.
* Onsite and offshore team management, task assignment to subordinates and their progress monitoring. Experienced in working with Onsite-Offshore model and led a team of 5 members in few projects.
* Have experience in gathering and understanding the requirements from the client.
* Involved extensively in training, knowledge transfer sessions to new employees and subordinates to cater to technical and functional requirements of the application.
* Have immense ability to build productive relationships with peers, management, and clients applying strong Communication skills.
* Excellent written and verbal communication skills with ability to interact with individuals at all levels.
* Quick Learner, highly motivated team player with excellent organizational and analytical skills.

**SKILL SET:**

|  |  |
| --- | --- |
| **AWS Services** | S3, EC2 |
| **Messaging Queue System** | Apache Kafka, AWS MSK |
| **Ticketing platforms** | Rally, Service Now |
| **Programming Language** | Java (8 & 11), Python, SQL |
| **Relational Database** | Oracle, PostgreSQL |
| **Document Database** | Mongo DB |
| **Non-Relational DB** | Redis |
| **Operating Systems** | Windows, Linux |
| **Web & Application Server** | Tomcat, JBoss, EJB |
| **Scripting** | HTML5, CSS, Java Script, ReactJS |
| **Case Tools** | Eclipse, STS, Visual Studio Code, Notepad++ |
| **Tools and Utilities** | GIT, Jenkins |
| **Visualization tools** | AWS Quick site |
| **Testing Tools** | JMeter |
| **NoSQL DB** | Apache Cassendra |

**PROFESSIONAL EXPERIENCE:**

**GR Development- Data Stage Loader, Lifespan Application June ’2022 – Till Date**

**Client: General Electric, Schenectady, NY**

**Tech Mahindra Americas**

**Sr. Java Developer / Lead / Production Support Lead**

**Location: Schenectady, NY**

**Environment:** CoreJava, React JS, Spring boot Micro services, EC2, AWS Managed Streaming for Apache Kafka, AWS grpc, AWS S3, AWS Lambda, AWS IAM, Redis, Maven, Python, Apache JMeter, GIT.

**Methodologies**: Agile, Test-Driven Development (TDD).

**Description**: GR Development project mainly focuses on the streaming turbine data to AWS data pipeline. We have around 20000+ turbines data streaming from sites which are handled through the AWS data pipeline and store the data in S3. The data streamed from the AWS data pipeline is displayed through the Lifespan application which has a front-end screen.

**Responsibilities:**

* Involvement in different phases of **SDLC and Agile** i.e., analysis, design, testing and creation of respective documents during an enhancement project.
* Services are completely developed using Test Driven Development (TDD).
* Working closely with the clients.
* Guiding the team of 3 members in India.
* Guiding the team for any technical/ functional issues and providing the inputs as necessary and seeing there is no slippage in tasks for sprint.
* Worked in the development of spring boot micro services like subscribers and data publishers.
* Expert in Java Script Libraries such as Jquery.
* Built single page applications, restful service applications using React JS.
* Fixed the production UI issues of React JS.
* Creation of High level and Low-level design documents as per the business requirements.
* Design and Development of Data Stage loader (DSL) process to ingest the data to AWS data pipeline.
* Development of Data Stage loader involves spring boot scheduled Job, which ingest the data to the AWS data pipeline.
* Data Stage loader supports around 20000 turbine data daily through the pipeline which is displayed in lifespan application.
* AWS IAM Services to enable users to grant permission and SSO using LDAP.
* Implementing the data stage loader as per the design documentation using spring boot scheduler.
* Development of Spring boot utility to pull the data from AWS Managed Streaming for Apache Kafka to check for the data quality and data accuracy.
* Working on subscribers to pull the data from Kafka topics,based on the retention time.
* Having knowledge on kafka messages and setting up replication factors for kafka.
* Development of Data Replicator to replicate data from higher to lower environments.
* Checking in the code to **Git** and enabling Jenkins to commit on build.
* All Springboot services are built on Maven and using Maven the code is compiled and packaged to a JAR file.
* Jenkins jobs are used to package the services using Maven.
* Writing the **Unit test cases** for the Spring boot applications to maintain the code coverage of 85%.
* Run the **Sonar cube** to check the code quality.
* AWS transformation: Migrating micro services from predix cloud to AWS.
* AWS Transformation: Moved all the spring boot servers from Predix to AWS.
* AWS Lambda: Monitored and troubleshooting the Lambda functions that process and put the data in S3.
* Optimized the AWS Lambda functions in cost and performance.
* Deployment of code through the **Jenkins** process if it passes through the **sonar cube** and code coverage.
* Worked on fixing the python scripts for the asset model in the projects.
* Running the python script for the project to get the dump for deployments.
* Fixing the issues with python scripts with the issues while running the sync.
* Coding with **Java, Spring boot** framework and integrating with the **AWS data pipeline**.
* All Spring boot micro services are developed and deployed through Jenkins pipeline.
* Worked on Python scripts , which runs as a sync job between asset data of two systems.
* Updating the new functionalities for the python sync application .
* Involved in **Unit level and Integration level testing**.
* Involved in writing automation scripts for JMeter and executing them for the microservices API testing.
* Create ,schedule and run the Jmeter scripts for automation and pull out the graphs.
* Implemented Muti threading Semaphores during the data publishing.
* Used multi threads to get the different KPI by implementing the callable interface.
* Involvement in rollout activities i.e., **deployment of the packages**.
* Maintain the AWS data pipeline and look for complete data coverage.
* Data completeness is targeted to be more than 99%.
* We have a Quick site dashboard to track the data completeness for the 20000+ assets.
* Verify the data ingested to S3 by automated job through AWS quick site.
* Preparing the release notes for deployment in Pre-prod and Prod environments.

**GR Development- Data Stage Loader, Lifespan Application Sep ’2020 – May 2022**

**Client: General Electric, Schenectady, NY**

**Tech Mahindra Limited India.**

**Sr. Java Developer / Lead**

**Location: Schenectady, NY**

**Environment:** CoreJava, React JS, Spring boot micro services, EC2, AWS Managed Streaming for Apache Kafka, AWS gRPC, AWS S3, AWS IAM,, Redis, Apache JMeter, Maven.

**Methodologies**: Agile, Test-Driven Development (TDD).

**Description**: GR Development project mainly focuses on the streaming turbine data to AWS data pipeline. We have around 20000+ turbines data streaming from sites which are handled through the AWS data pipeline and store the data in S3. The data streamed from the AWS data pipeline is displayed through the Lifespan application which has a front-end screen.

**Responsibilities:**

* Involvement in different phases of **SDLC and Agile** i.e., analysis, design, testing and creation of respective documents during an enhancement project.
* Guiding the team of 3 members in India.
* Guiding the team for any technical/ functional issues and providing the inputs as necessary and seeing there is no slippage in tasks for sprint.
* Creation of High level and Low-level design documents as per the business requirements.
* Design and Development of Data Stage loader (DSL) process to ingest the data to AWS data pipeline.
* Development of Data Stage loader involves spring boot scheduled Job, which ingest the data to the AWS data pipeline.
* Data Stage loader supports around 20000 turbine data daily through the pipeline which is displayed in lifespan application.
* Implementing the data stage loader as per the design documentation using spring boot scheduler.
* Development of Spring boot utility to pull the data from AWS Managed Streaming for Kafka to check for the data quality and data accuracy.
* Development of Data Replicator to replicate data from higher to lower environments.
* Writing the Unit test cases for the Spring boot applications to maintain the code coverage of 85%.
* Run the Sonar cube to check the code quality.
* Deployment of code through the Jenkins process if it passes through the sonar cube and code coverage.
* Coding with **Java, Springboot** framework and integrating with the **AWS data pipeline**.
* Involved in **Unit level and Integration level testing**.
* Working on Jmeter scripts to run the automation.
* Involvement in rollout activities i.e., **deployment of the packages**.
* Maintain the AWS data pipeline and look for complete data coverage.
* Working on subscribers to pull the data from Kafka topics,based on the retention time.
* Having knowledge on kafka messages and setting up replication factors for kafka.
* Data completeness is targeted to be more than 99%.
* We have a Quick site dashboard to track the data completeness for the 20000+ assets.
* Verify the data ingested to S3 by automated job through AWS quick site.
* Preparing the release notes for deployment in Pre-prod and Prod environments.

**Wind Fleet Visibility, India July ’2016 – Sep ‘2020**

**Senior Full Stack Developer, Predix Developer**

**Tech Mahindra Ltd, India**

**Client: General Electric, Hyderabad, India**

**Description**: WFV is the application of GE renewables energy which tracks the performance of a turbine. There were different chats like Availability, Production Lost Production. These charts are generated using High-charts. The input to the chart data is provided by the back-end spring boot services. All the apps are deployed on the cloud provided by the GE called Predix. There are four modules in the Application. Overview, Reports, Sitefocus and Siteconfig. In reporting module, there was a feature of generation PDF version of the report.

**Environment:** CoreJava, Spring boot services, React JS,Web Logic, TomEE, Cloud foundry, Apache Jmeter,Apache Cassendra, Jenkins.

**Responsibilities:**

* Worked on the development of the Reports module.
* Developed micro services for the report module which are integrated with Swagger.
* Worked on end-to-end implementation of email functionality along with email Scheduler.
* Worked on different issues raised during QA across modules.
* Guiding team members if they face any technical challenges.
* Creating the local environment and tested on WebLogic application server.
* Migrated the application to TomEE application server.
* Implementing Apache j-meter for performance testing of service end points and front-end testing.

**D.TranZ July ’2014 – April 2016**

**Accenture pvt. Services, Hyderabad**

**Client: Inhouse Project**

**Senior Software Engineer Analyst**

**Party Operational Data Storage (PODS)**

**Description:** D.TranZ is an initiative by Accenture Digital wherein, constructive focus has been laid on turbo skills like Adobe AEM (Experience Manager) for Content, Hybris for e-commerce, React JS for FED, Liferay for Portal. It is time boxed to a duration of 8 weeks including Training, ramp up, Development of 3/4 sprints (2 weeks each) and Demo at the end of each sprint to leadership a location leads. The project sprints put each and every developer in the most challenging situations to ensure that by the end of it, they evolve prepared to tackle technical challenges effectively.

**Environment:** Adobe AEM, Java, CQ5 Bundles, Maven, Core Java, EJB.

**Responsibilities:**

Worked to implement CQ5 reusable components that are designed to be combined together to provide information on events happening or hosted with reference to given web page.

* Created custom Event Listeners and Event Handlers for CQ at JCR level.
* Having experience in using Query Builder API, SQL2 and Xpath queries.
* Built OSGI bundles for the custom java classes and deployed to the Apache felix console.
* Worked in an agile, rapid development, and prototyping environment.
* Design and code from specifications, analyzes, evaluates, tests, debugs, documents, and implements complex software apps.
* Built and maintained web applications using AEM CMS to include site architecture, custom components, DAM.

**Cisco Networks Limited, Hyderabad May ’2012 – July 2014**

**Client: Cisco Networks**

**Infosys Limited, Hyderabad**

**Technology Analyst**

**Auto testing Environment Limited**

**Description:** Autotest (also called Klemtest) is a general-purpose system of computers designed to control the testing of Cisco products. In simplistic terms it can be thought of as a computerized operator. It includes GUI application (Autotest), language (Klemspeak), compiler, and database (Klembase).

**Environment: Linux**

**Responsibilities:**

* Worked on the Support activities.
* Managed team at offshore.
* Worked on other responsibilities like Making Weekly status report, helping team on pending issues sending client on the analysis of the cases received for a particular month.
* Providing some ideas to minimize the case count.

**Vodafone Essar Ltd, CPOS Application Oct '2011 - April '2012**

**Client: Vodafone Essar Ltd**

**Talent Capital India at Tata Consultancy Services**

**Software Engineer**

**Environment:** CoreJava, JAX-RPC Webservices, EJB.

**Description:**

Vodafone, the world’s leading international mobile communications group. In India, Vodafone has 23 Circles, each circle is it may be state or combination of more than one state. CPOS on Hand held application is designed for the sales that happen after the retailer. Between the distributor and retailer there is DSE (Direct sales executive) who has this hand-held device and performs the transactions. The complete transactions are kept in sync with the current CPOS system

**Responsibilities:**

* Worked on the development of the Receipts module.
* Input will be coming from SOAP request and corresponding SOAP response is generated.
* Used IBM RAD for development and for creating the web service WSDL file.
* Worked on web services with JAX-RPC 1.1 specification and deployed in Web sphere 6.1 using Rational Application Developer.
* Used SOAP UI interface for testing the WSDL file generated.

**Maharashtra Online April '2010 - Aug '2011**

**Client: Government of Maharastra**

**Agree Staffing Services at Tata Consultancy Services**

**Business Associate**

**Environment:** CoreJava, J2EE (Servlets, JSP), Hibernate, EJB

**Description:** It is the online portal being developed by the Tata Consultancy Services (TCS). Its main aim is to bring the e-goverence to the door step of citizen. Presently the project is in the development stage. There are many services provided by this online portal. Citizen can even get various certificate issued online. This online portal is synchronized by the IWDMS. It is called as Digi-Gov which is called digital goverence where every government employee is provided with their own login. The services which are applied in the portal go to the respective government login from where the further process goes on

**Responsibilities:**

* Actively involved in development of various services such and Birth and death applications and RTO application.
* Involved in requirement analysis and designing the database tables according to the requirement.
* Actively involved in the deployment actions, setting up testing and Production server environments and taking care of daily deployment activity.
* Grooming the newly joined associated regarding the development and helped them in development activity.

**Jharkhand eDistrict Application May '2009 - March '2010**

**Client: Government of Jharkhand**

**Tata Consultancy Services, Gandhinagar**

**Retainer**

**Environment:** CoreJava, J2EE (Servlets, JSP), Hibernate.

**Description:** Jharkhand e-District Application is a comprehensive web enabled service portal that acts as an electronic gateway into the Government's portfolio of services. It is an end-to-end integrated solution which caters to the needs of various departments of the state of Jharkhand and provides various e-Governance services to its citizens. It provides an interface for citizens to avail various citizen centric services like applying for Certificates, Electrol services etc. through its front-end, and couples it with a back office to handle the processing of all these applications.

**Responsibilities:**

* Actively involved in development of various services such and Birth and death applications.
* Involved in requirement analysis and designing the database tables according to the requirement.
* Actively involved in the deployment actions, setting up testing and Production server environments and taking care of daily deployment activity.
* Grooming the newly joined associated regarding the development and helped them in development activity.
* Solving the review comments given by the onsite team and deploying them on at the production server.
* Taking the Database dump of the development database.
* Making the production server on the Linux machine and helping the client-side people in deployment activity.

**EDUCATION:** Bachelor of Technology in Electronics and Communication Engineering, Tirumala Engineering College, JNT University, Hyderabad, India