**BHARAT GANGINENI**

**Senior Software Engineer**

**PROFESIONAL SUMMARY:**

* Overall Seven plus years of experience in **JAVA/J2EE projects in software analysis, design, implementation and development.**
* Extensive experience in **Object Oriented Analysis**in developing**server side**and **front-end framework**using**J2EE design patterns**.
* Experience in building enterprise Applications and Distributed Systems using technologies such as **Core** **Java**, **J2EE** (**Servlets**, **JSP**,**Struts**, **Hibernate**, **SPRING,** **JDBC**, **JMS**) and **XML.**
* Profound knowledge in **Software Development Life Cycle (SDLC).**
* Good knowledge in **spring framework**, **Object Relation Mapping**using **Hibernate**.
* Worked on Design and Analysis (OOAD) resulting in Use Case View (Use Cases & Actors) & Logical View (Class Diagram and Sequence Diagram) using UML.
* Hands-on experience in relational databases like **Oracle 10g**, **DB2**, using **SQL** and **PL/SQL**.
* Extensive experience in **JavaScript, HTML, CSS, AJAX**.
* Highly involved in full software development life cycle implementation.
* Experienced in developing applications using **Model-View-Controller architecture like Struts, Spring MVC frameworks.**
* Worked under**Agile (XP, Scrum and TTD) methodologies.**
* Worked extensively on **Angular JS**to develop the front-end screens
* Experience in developing **Unit test** cases for the screens using jasmine.
* Ability to work with business functions to understand business requirements and develop technical specifications
* Excellent **communication, Teamwork, inter-personnel and presentation skills,**fast learner and organized self-starter.
* Good experience in solving difficult problems with the help of **Algorithms** and **Data Structures.**
* Extensively worked on **performance tuning** of the code for less **runtime** complexity and **memory** complexity.
* Extensively used **Design patterns** in the development.
* Knowledge in using the **Hadoop** frameworks like **HDFS**, **pig Latin**, **hive** and **map reduce** frameworks to analyze the large datasets.

**TECHNICAL SKILLS :**

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| **J2EE Technologies** | JSP, Servlets, Hibernate, Spring, JDBC, JMS, Web Services, JAX-WS, JAX-RS, Rest & Soap Web services, Apache Spark. |
| **Databases** | Oracle 10g,11g, SQL Server. |
| **Web Technologies** | HTML, XML, JSON, CSS, Ajax, JavaScript, Angular JS, Python |
| **Web & Application Servers** | Web Sphere 6.x/7.x, Tomcat |
| **Developer Tools (IDE)** | Eclipse, RAD, IntelliJ, PyCharm, Spyder, Jupyter. |
| **Operating Systems** | Windows 2000/XP/Vista |
| **Configuration Management Tools** | JUnit, Log4j, SVN, GIT, jenkins |

**EDUCATION:**

* **Bachelor of Technology** in Electrical and Electronics Engineering, KL College of Engineering, **ANU**, India.
* **Master’s in computer engineering**, **University of Houston Clearlake**.

**PROFESSIONAL EXPERIENCE:**

**Employer:  GE Healthcare**

**Dates: Jan 2017 – Till Date**

**Role: Senior Software Engineer**

**Description**: Wall of Analytics (WOA) is a product is to receive messages from hospital network, process them in real time and generate hospital workflow summary data and alerts which would helpful for hospital operations.

**Responsibilities**:

* Developed **Rest API** services using **Spring Boot** to receive and parse the Messages and integrated these rest services with the existing cloud gateway.
* Developed high performance distributed enterprise applications through Object Oriented Design using Java/J2EE/JSE technologies.
* Developed machine learning models to predict the future analytics using Spark ML.
* Extensively used python API’s like NumPy, Pandas, Scikit Learn and Pyspark to build ML Models.
* Using Message Broker and the Message Store **RabbitMQ** for receiving and store the messages on SQL stores.
* Using java API on **apache spark** to develop the Machine Learning algorithms to process the messages in real time.
* Extensively developed Cassandra Query language (CQL) scripts to mine the data in the **Cassandra** data store.
* Developed an API which will automate the data ingestion and data creation process for different hospitals and clients.
* Developed and deployed spark jobs on 6 node cluster residing in the **Azure** cloud.
* Followed the **Test-Driven Development** while developing using Junit framework.
* Integrate the client-side applications by following the protocols required to achieve data integrity.
* Developed a new data ingestion cloud gateway to process SBX data files from Different Hospitals.

**Environment: J2EE, Hadoop, Apache Spark, HDFS, MapReduce, Hibernate, Spring IOC, JMS, RabbitMQ, Cassandra, SQL Server, GitHub, Log4j, maven, Rest, Spring Boot.**

**Client: Wells Fargo - Charlotte, NC**

**Dates: Jun 2015 – Dec 2016**

**Role: Software Engineer**

**Description**: **Financial Engines** offers both retirement online advice and managed account services to participants, which will give Wells Fargo a competitive advantage in large market sales opportunities and help with retention of signature service clients.  This service will be in addition to the advice and managed account services provided by Morningstar. As part of this project I am responsible for developing a dynamic web application which serves the customers as well as business units in wells Fargo.

**Responsibilities**:

* Worked closely with **product managers** and stakeholders to define, implement and improve user experience.
* Performed heads-down development, **technical integrations** with backend APIs using **web services** and working with **QA** to assure top quality deliverables on-time.
* Configuration of application using **spring IOC, Spring MVC, Hibernate, DAO’s, Java Server Pages.**
* Developed the application using **Spring MVC Framework** that uses **Model** **View Controller (MVC)** architecture and presentation layer as **JSP, HTML and CSS, AngularJS**.
* Extensively used **Spring IOC** for Dependency Injection and worked on Custom MVC Frameworks loosely tied to backend services.
* Designed and developed **REST** **API**based services using**Jersey**frameworkfor multiple client’s access to the **Money funds data**.
* Developed a **Soap** based web services using **Apache-CXF** to consume xml data.
* Involved in implementing **Apache** **HIVE** and **PIG** scripts and Map Reduce framework to analyze the future pricing patterns of different funds.
* Used **Agile** methodology/**SCRUM** to develop the application.
* Developed Java **Batch Jobs** using the Batch framework on top of Java and J2EE frameworks.
* Extensively used **Data Structures** and **Design patterns** for the best performance and reliability of code.
* Developed **Stored procedures** and **Event** **Triggering** for adding, updating and retrieval data on top of **Sybase** database.
* Utilized design patterns like Singleton, Service Locator and Front Controller.
* Used **Log4j** for logging and debugging the application.
* Performed extensive test-driven development-using **JUnit** for unit testing.

**Environment: J2EE, Hadoop, Hive, Pig Latin, HDFS, MapReduce, Hibernate, Spring, AngularJS, JavaScript, HTML, CSS, WebSphere, Sybase, SQL Toast, SVN, GitHub, Log4j, Jenkins, VersionOne**.

**Client: ADP - Florence, SC**

**Dates: Jun 2014 – Jun 2015**

**Role : Java/J2EE Developer**

**Description**: **Orbis** is a web application which consists of several number of gadgets that can be used to track the process of obtaining the Tax credits from the federal government. This application can be accessed by multiple users like operators in the back-office call center and managers. All the process involved in getting the credits from the states is managed by this application.

**Responsibilities:**

* Interacted with the **client** directly while capturing the **requirements** and project closure.
* Prepared the **design** documents and effort estimations.
* Developed application presentation layer using the **AngularJS** framework.
* Actively involved in mock screens development and project start-up phase.
* Developed three tier architecture application using **Spring MVC** framework.
* Used **Hibernate, object/relational-mapping (ORM)** solution, technique of mapping data representation from MVC model to Oracle Relational data model with **SQL**-based schema.
* Configured the application using **spring, Hibernate, DAO’s, Actions Classes, Java Server Pages.**
* Developed screens using **JSP, HTML**, **JavaScript**.
* Developed SOAP based web services using **WSDL**, **SOAP**, **JAX**-**WS** and **AXIS**.
* Produced as well as consumed **RESTful** web services using **Jersey** API's.
* Followed Java & J2EE design patterns and the coding guidelines to design and develop the application.
* Deployed the applications on **WebSphere**Application Server.
* Fixed defects identified during QA, UAT and Production.
* Used **Oracle 11g** database for tables creation and involved in writing SQL queries using Joins and Stored Procedures.
* Developed **JUnit** Test Cases for Code unit test.
* Worked with configuration management groups for providing various deployment environments set up including **System Integration testing, Quality Control testing** etc.

**Environment: J2EE, Hibernate, Spring, AngularJS, JavaScript, HTML, CSS, WebSphere, Toad for oracle, Oracle 11g, SVN, Log4j, Jenkins, Rally, MS Office, Windows7**.

**Employer: TCS – Bangalore, India**

**Dates: Jun 12 – Dec 12**

**Role: Assistant System Engineer**

**Description: Employee Information System (EIS)** project was developed for **Reddy Laboratories**. EIS provides the following facilities to employees to view their paychecks, tax cuts, to update their personal information and to search the information about the other employees working in that company.

**Responsibilities:**

* Developed the**technical documentation** based on the requirements provided in **functional** **design** document.
* Involved in development of the application using **Spring** and **Struts** Frameworks.
* Used **Agile** methodology/**SCRUM** to develop the application.
* Implemented **Model View Controller (MVC)** Architecture using **Struts** and **Spring** frameworks combined with **JPA**.
* Extensively used Java **Collections**.
* Developed screens using **JSP, HTML**, **JavaScript**, **Struts**, **Spring** Frameworks and **XML**.
* Used Struts Framework to structure core application webpage layouts and to assemble the **JSPs**.
* Resolved database inconsistency with better design and efficient **SQL queries**.
* Developed the **DAO** layer for the application using **JPA templates**.
* Developed various business logic and reports using **HQL** and **JPA**.
* Implemented **server-side Java web framework** with **Struts, Oracle**, and **SQL**.
* Implemented the validations using **Struts** Framework.
* Used **Log4j** for logging and debugging.
* Performed extensive test-driven development-using **JUnit** for unit testing.
* Used **Rational Clear Case** for version control and source code management.
* Used **Rational Clear Quest** for tracking errors and bugs in the project source code.
* Used **CVS**for version control across common source code used by developers.

**Environment: J2EE 1.6, JSP 2.0, Spring, Struts 2, JPA, JavaScript, HTML, SQL, XML, WebLogic, Maven, Eclipse, Windows XP, CVS, Clear Case, Clear Quest, Log4j, Oracle.**

**Employer:  Colossal Networks – Hyderabad, India**

**Dates: Jun 11 – May 12**

**Role: Web Developer Intern**

**Description:**worked for multiple client project. primarily focused on technical documentation and UI Designing and backend integration.

**Responsibilities:**

* Designed **front-end** using **DHTML**, **HTML**, **JavaScript, Ajax, CSS**, **XSL** and **XSL-FO**.
* Done the front-end validations using **DOJO**, Java Script.
* Worked on **stored procedures**, **triggers** and **cursors**, **PL/SQL** and **SQL** queries in Oracle.
* Performed Unit & Integration testing and documentation of project. Used **Agile** methodology/**SCRUM** to develop the application.
* Involved with the team in developing an error handling system for the whole application using **XML/XSL.**
* Provided technical support for enhancements, memory leaks and bugs/fixes.

**Environment: J2EE, Servlets, Java Beans, JSP, JDBC, jQuery**, HTML5, **JMS, JMX, XML, IBM Web Sphere**, IBM Web Sphere Application server, **Oracle,** Rational Clear case, CVS, Java Script, HTML.