**Archana Gangapuri**

|  |
| --- |
| **Project/Experience Summary:** |
| * Around **9+ years** of **IT experience** in all phases of **Software Development Life Cycle** (**SDLC**) such as **Planning**, **Analysis, Design, Implementation, Testing** and **Maintenance** of **Web Based, Client-Server** and **N-tier Architectures.** * Extensive experience of designing and developing software applications with **Java , J2EE, EJB, JSP, JSF, JNDI, Servlets, Java Beans, ORM, Web Services, JDBC, XML, CSS, SOAP, REST.** * Utilized **Java 8** features like Lambda expressions and Stream API for bulk data operations on collections which would increase the performance of the application. * Proficient in Java/J2EE DesignPatterns including **Singleton** **Factory**, Model View Controller (**MVC**)**,** Data Access Object (**DAO**) and Business Delegate. Well versed with coreJava concepts like **collections, multithreading, serialization, Java beans**. * Extensive experience in design and architecture of J2EE based large applications and good working experience in using different modules like **Spring Core Container Module, Spring Application Context Module, Spring MVC Framework module, Spring AOP Module, Spring ORM Module, Spring Batch, Spring Boot** in Spring Framework. * Knowledge in implementing **MEAN** Stack (MongoDB, AngularJS, NodeJS) with RESTful stands. * Experience in writing numerous test cases using **JUnit** framework. Expertise in developing dynamic web pages in **HTML** with AngularJS for UI and developed single page application by using **AngularJS.** * Worked on IDEs such as **Eclipse/MyEclipse and WSAD/RAD** for developing, deploying, and debugging the applications. Experience in developing applications using frameworks like **Struts**, **Hibernate and Apache CXF**. * Experience on MS-SQL, MongoDB, Sybase, MySQL, and expertise in managing **MongoDB** environment from availability, performance, and scalability perspectives. * Proficient with development of **RESTful** Web Services using JAX-RS for exchange of **JSON** and **XML** representations. Expertise in developing dynamic web pages in HTML with AngularJS for User Interface and developed single page application by using AngularJS. * Experience in Object Oriented Analysis and Design (**OOAD**) using Unified Modeling Language (UML) and Rational Unified Process (**RUP**) using Rational Rose, Enterprise Architect and MS Visio. * Experienced in using **ANT and Log4j**. Experience working with databases such as **Oracle 8.x/9i/10g, MS-SQL Server, MySQL** and using **PL/SQL** to write stored procedures and functions for different Data Models. * Knowledge in **AWS** Cloud platform and its features which includes EC2, Cloud watch. * Managed Amazon Web Services like **EC2, S3 bucket, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, Dynamo DB, Elastic search, Virtual Private Cloud (VPC) through AWS Console and API Integration.** * Excellent in deploying the applications in AWS as **EC2 instances** and created snapshots for the data that had to be stored in **AWS S3**. * Defined **AWS** Security Groups which acted as **virtual firewalls** that controlled the traffic allowed reaching one or more EC2 instances. * Experienced in a fast-paced **Agile Development** Environment including **Test-Driven Development (TDD) and Scrum**. Hands-on experience with Reporting Tool **Crystal Reports** to create reports in various formats and tuning the performance. * Experience in using Integration tools like **Jenkins, Cruise control**. * Designed and developed custom **Mongo** applications specific to clients' needs and proficiency in multiple databases like **MongoDB**, **MySQL**, **ORACLE,** and **MS** **SQL** **Server.** Worked on **DB** database concepts such as locking, transactions, indexes, Shading, replication, schema design. * Experience in Configuration Management, setting up company Version policies, build schedule using **SVN, CVS and Git.** * Expertise working on **Application Servers** and **Web Servers** like **WebSphere, WebLogic, Apache Tomcat.** * Expertise working with kafka, kafka connect * Extensive experience in **Database** **Development** using SQL, PL/SQL, Stored Procedures, Functions, SQL Developer & TOAD, Triggers and SQL Server Management Studio. * Good experience in **log4J** implementation for persist the data into log files and experience with Ant and Maven for the build and deployment of applications. * Experience in developing test cases and test plans besides involving in **Unit testing, Integration testing** and **User** **Acceptance** **testing** extensively. * Highly self-motivated and goal-oriented team player with strong analytical, debugging, problem solving skills. Diversified knowledge and ability to learn new technologies quickly. |

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **J2EE Technologies** | Java 8, EJB, JSP, Servlets, Swing, Java Beans, Java Server Faces (JSF), Hibernate, Spring, Spring boot, Microservices, JNDI, JMS, JDBC, SOA, JAX-WS, JAX-RPC and JAXB |
| **Web Technologies** | HTML, JavaScript, CSS, Ajax, jQuery, Angular, React JS, NodeJS |
| **Web Services** | SOAP, RESTful |
| **Application Server** | WebLogic, JBoss, IBM WebSphere |
| **Web Server** | Java Web Server, Apache Web Server, Tomcat |
| **Languages**  **Streaming services** | JAVA, C, C++, UNIX.  Kafka, Kafka connect |
| **Databases** | Oracle 8.x/9i/10g Enterprise Edition, MS-SQL Server 2008/2005, DB2, MongoDB |
| **Tools** | Rational Rose, Eclipse, MyEclipse, Net Beans, Spring Tool Suite(STS), Jenkins, MS-Office, Log 4J, AWS, ANT, WSAD, Maven, MS Project. |
| **Operating Systems** | UNIX (Sun Solaris), Unix-HP, Linux, UNIX Scripting, Windows NT, Windows 95/ 98/2000. |
| **Reporting Tool** | Crystal Reports |
| **Version Control Tools** | SVN, Clear Case, Git, Source Tree |

**WORK EXPERIENCE**

**Visa Inc, Austin, Texas March 2021 – Till Date**

**Role: Full Stack Developer**

**Responsibilities:**

* Followed agile methodology and involved in daily **SCRUM meetings, sprint planning,** showcases and retrospective and used **JIRA** as a tracking tool for the sprints.
* Designed the front-end screens using **Angular, HTML5, CSS3, JavaScript, React JS, jQuery, Bootstrap, and Spring Boot**.
* Worked on Micro Services to create modular components with light weight to deploy using various protocols.
* Involved in enhancing existing **MEAN** (MongoDB, Express, Angular and Node) stack applications and provided the required support.
* Developed Angular controllers, services, filters, and developed HTML templates with various Angular directives such as **ng-app, ng-controller, ng-repeat, ng-if, ng-show, ng-hide, ng-change, ng-blur etc.**
* Used various Angular UI Bootstrap components such as **calendars, masks, uploaders, sliders, alerts, modal dialogs etc. for developing the UI.**
* Used Node.js to run Grunt tasks and build properly the project (compile, minify, concat etc.) and Implement modules into Node JS to integrate with designs and requirements. Used **GruntJS, BowerJS, ExpressJS from NodeJS.**
* Developed **unit test cases** using **Jasmine and Karma** and performed end to end testing using Protractor and Selenium
* Developed **Angular services** making use of resource service to perform REST API calls to the backend.
* Developed a feed back service for DB2 using K**afka connect**
* Developed a poller service using **Kafka**
* Implemented **Micro services architecture using Spring BOOT** enabled REST API with the Spring Cloud modules.
* Developed in spring modules like **Spring MVC, React JS IOC, Dependency Injection, JDBC, JTA, Spring Rest, Spring Boot, Spring Batch, Micro-services, Spring Eureka, Spring Netflix, Spring Ribbon and Spring Security.**
* Involved in applying securities to application using Protocols such as Https, Layer 7, Integrated Layers and Encryption Mechanism.
* Developed **REST exception handling controller** advices to respond to bad requests and server-side exceptions.
* Used complete annotation driven approach to develop the application using **Spring Boot** and was involved in setting up the **Spring bean profiling.**
* Used **Hibernate** in the persistence layer and implemented DAO's to access data from database.
* Involved in configuration and usage of Apache **Log4J** for logging and debugging purposes.
* Extensive knowledge on **AWS EC2, Amazon S3, Amazon Elastic Load balancing** and other parts of AWS infrastructure.
* Worked on **AWS multi factor authentication (MFA)** related to security groups including rest security.
* Configured and tuned the **AWS EC2 and worked on ELB, Route53** for high availability.
* Worked on **Angular and Node JS** to enhance front end functionalities as per business requirements.
* Developed **reporting dashboards**, which processes large amount data that are stored in Elastic Search and My SQL platforms and generates reports and displays in dashboards.
* Identified and **created indexes, mappings and data** in Elastic search and used Elastic Search REST API's both single and multi-document API's. API's like Index, Multi Get, Bulk etc.
* Used various aggregations like **Metrics, Average aggregations** in Elastic Search.

**Environment**: Angular, HTML5, CSS3, JavaScript, Micro Services, Dynamo DB, Mark logic, Unix, jQuery, Bootstrap, Grunt JS, Bower JS, Node JS, React JS Apache Log4J, AWS, Docker, JIRA, My SQL, REST.

**Toyota, Irving, TX Jan 2019 – Feb 2021**

**Role: Java Developer**

**Responsibilities:**

* Involved in the analysis, design, development and testing phases of **Software Development Lifecycle** (**SDLC**).
* Followed iterative application development specified by **Agile Scrum** methodology consisting of weekly Sprints and stand-up meetings and built the application with Test Driven Development (**TDD**).
* Developed front end using **HTML5, CSS3, React JS and Redux**.
* Involved in deployment of full Software Development Life Cycle (**SDLC**) of the tracking systems Requirement gathering, Conceptual design, Analysis, Detail design, Development, System Testing, and User Acceptance.
* Skilled in using **Jira** – Atlassian Agile Development software to meet the Sprint goals.
* Responsible for building, maintaining and enhancing the Client/Server application using J2EE standard open-source framework **Spring** **MVC**, **Hibernate** and **Oracle** as Back-end.
* Called the restful web services to get the **JSON** object (Response) and manipulated the **JSON** Object to display the response in the webpage.
* Worked in Micro Services Architecture. Used Apache **CXF** as the web services framework to implement the **REST** API’s involved.
* Developed and maintained multiple versions of web services by creating corresponding end points CXF**.**
* Implemented caching strategies in web services client layer for reducing the number of executions in controller.
* Worked on Spring Security Framework for authentication and authorization.
* Orchestrated Micro-services architecture in order to manage, monitor, and scale parts of an application.
* Utilized **Spring Boot to be able to create Restful Micro services** using Play framework for achieving asynchronous communication.
* Involved in creating the Hibernate **POJO** Objects and mapped using Hibernate Annotations.
* Used Hibernate, object/relational-mapping (**ORM**) solution, technique of mapping data representation from MVC model to Oracle Relational data model with a SQL-based schema.
* Used the Rest Templates in the spring services to call the rest web services.
* Used Java Messaging Services (**JMS**) for reliable and asynchronous exchange of important information such as payment status report on **IBM WebSphere MQ** messaging system.
* Designed various design Workflow Modules using **BPM** (Business Process Modeler) to implement Business Logic and Business rules.
* Implemented Multi-Threading concept to pull data concurrently from multiple web pages in order to generate PDF file in a timely manner.
* Developed the application using Spring Framework that leverages the classical (Model-View-Controller **MVC**) architecture.
* Implemented features like logging, user session validation using Spring-**AOP** module. Used Spring security framework for authentication and authorization of the application.
* Used Spring Core for dependency injection/Inversion of control (**IOC**) and implemented using Spring Annotations.
* Used **Spring Batch** for scheduling and maintenance of batch jobs.
* **JMS** was used to send/receive Asynchronous data from various message brokers.
* Used Hibernate as Object Relational Mapping (**ORM**) tool for back-end data Persistency.
* Extensively used Hibernate Query Language (**HQL**) for data retrieval from the database and managed the transactions using the Spring Hibernate Transaction Management.
* Used Second Level Cache to enhance performance and proper memory management.
* Used Distributed Cache for better redundancy to serve data across multiple locations.
* Set up and troubleshoot issues with Secure Shell in the environment to accommodate script automation and password changes.
* Used **JUnit** and **Jasmine** Automation framework for performing Unit testing.
* Used **Jenkins** for Continuous Integration and Continuous Development.
* Used **log4j** to capture the log that includes run time exceptions.
* Used Stash as Distributed version control system and Git branching for creating a new feature and making bug fixes.

**Environment**: Java 1.8, JSON, Spring MVC, Hibernate 4.0, REST, Apache CXF, Apache Camel, Oracle 11g, Log4J, Apache

Tomcat, JNDI,Gradle, Stash, Tortoise Git, Jenkins, Docker, SourceTree, SQL, Oracle SQL Developer, IntelliJ IDE.

**Charter Cmmunications, Charlotte, NC Nov 2017 – Dec 2018**

**Role: Java Developer**

**Responsibilities:**

* Involved in the analysis, design, development and testing phases of **Software Development Lifecycle** (**SDLC**).
* Followed iterative application development specified by **Agile Scrum** methodology consisting of weekly Sprints and stand-up meetings and built the application with Test Driven Development (**TDD**).
* Developed the application using **Spring MVC** intensively that leverages classical MVC architecture and **JavaScript** for major data entry that involved extreme level of data validation at client side.
* Involved in developing code for obtaining bean references in **spring framework** using **Dependency Injection** / **Inversion of Control** (IOC), and **Aspect** Oriented Programming (AOP) on **Spring Tool Suite** (**STS**).
* Created the **Spring Bean Factory** for initializing services. Added security for service layer methods using Spring Security.
* Integrated Single sign-on using **LDAP** and **Active directory** (**AD**) on **Spring security** layer, successfully maintained users and groups integrity in the application.
* Created and injected **Spring services**, **Spring controllers** and **DAOs** to achieve dependency injection and to wire objects of business classes.
* Involved in design and development of UI component, which includes layered POVs and Carousels using **frameworks AngularJS, JavaScript** and **jQuery** in conjunction with **HTML5, CSS3, Bootstrap**.
* Implemented core features of **AngularJS** framework such as dependency Injection, **Data-binding, Filters, Directives, Templates, Services** and **Deep Linking**.
* Created **AngularJS controllers**, services and used AngularJS filters for filter functionality in search box and integrator functionalities.
* Applied multiple built-in Directives such as **ng-model**, **ng-click** into AngularJS application.
* Involved in building a web service to provide access to the models and exposed it using a **REST API** that emits **JSON**.
* Called **REST web services** through AngularJS services to get **JSON** Object and modified the response object to display in UI.
* Improved overall performance via **multithreading, collections, synchronization, and exception handling strategies** for complex data computations and analysis.
* Developed **REST architecture**-based web services using **JAX-WS** to facilitate communication between client and servers.
* Involved in development of web services for business operations using **SOAP, WSDL, JAX-WS, JDOM, XML, XSL** and **Apache CXF**.
* Implemented various **design patterns**: Singleton, Data Access Object (DAO), Command Design Pattern, Abstract Factory, Factory Method Design Pattern.
* Worked on **XML** parsing by using **JAXB** for **XML** Schema Validation. Used **XSLT** to transform my XML data structure into HTML pages.
* Created and modified the **CSS** classes to change the look and feel. Used **JavaScript** for Client-Side validations.
* We used **Postman** for testing the webservices
* Developed the **spring AOP** programming to configure logging for the application and to track CRUD operations on the database.
* Used Spring Transactions and Spring Web Flow for Payment and Money Transfer.
* Developed **REST services** using **Spring Boot** to serve the UI with JSON data and involved in creating controller advices to handle exceptions and bad requests.
* Used **Mongoose JS** to access the documents from the **NodeJS** web server and build data models for the entities in the database schema.
* Performed CRUD operations like Update, Insert and Delete data in **MongoDB** and **Oracle database** management system and handled database access and data transmission based on **RESTful web service**.
* Worked on **MongoDB** database concepts such **as locking, transactions, indexes, Sharding, replication, schema design**, etc.
* Configured & deployed Java applications on **Amazon Web Services (AWS)** for a multitude of applications utilizing the **AWS stack**, cloud formation. Maintained the user accounts RDB, **Dynamo DB** and **SNS** services in **AWS** cloud.
* Used **Spring ORM** Support for **Hibernate** to manage efficiently Hibernate Resources and consistent exception Hierarchy.
* Implemented **persistence** layer using various features like XML configuration file for Database connectivity, connections to database using Hibernate Session Factory, using **Hibernate APIs** to retrieve and store data to the database with Hibernate transaction control using **ORM** tool **Hibernate 3.0** framework like **HQL** queries etc.
* Used **Java Message Service (JMS)** for reliable and asynchronous exchange of important information, such as order status report, delivery report. Wrote JMS class to transfer the orders between agents and policy holders.
* Used **JMS** using **RabbitMQ** to report failure of connectivity between Quad instance and other components in Cluster.
* Configured **Kafka** to read and write messages from external programs.
* Extensively used the Log4j for Logging Errors, debugging and tracking and Exception statements.
* Created build files using Maven. Developed the application using **Spring Tool Suite** (**STS**) and **GIT** for version control and **Jenkins** for **continuous integration** and **continuous Deployment (CI/CD).**
* Used **Hibernate ORM** frameworks for database connectivity. Developed **SQL procedures** for login module and written complex SQL queries.
* Worked in an **Agile environment** delivering output in **sprints**.  Used **Apache Tomcat 7** as the server to host the application.
* Generated **UML** artifacts such as use cases, sequence diagrams, class diagrams using Rational Application Developer
* Wrote **Junit** test cases with **Mockito, Mock MVC test framework, resolved bugs and Eclipse's debugging tool**.
* Involved in various internal releases of the application and supported the application modules during testing and pre-production phases.

**Environment**: Java 8, Spring 4.x, RESTful Webservices, JSON, Apache CXF, HTML5, CSS3, Bootstrap, Angular JS, JMS, RabbitMQ, Hibernate 4.3, Oracle database, MongoDB, Node JS, Spring Tool Suite, Windows 7, JUnit, Git, Maven, Jenkins and Tomcat.

**Star Health and Allied Insurance Co. Ltd , Hyderabad, India June 2015 – May 2017**

**Role: Java Developer.**

**Responsibilities:**

* Involved in analysis, specification, design, and implementation and testing phases of Software Development Life Cycle (SDLC) and used **Agile** methodology (**SCRUM**) for developing application.
* Application is implemented using agile methodology where there is a daily SCRUM meeting to understand the status and resolve any issues.
* Involved in combining two web applications into one for a new project.
* Written the DAO and Impl classes.Also have abstract class which has all the generic things like save, delete and update etc.
* Used Gradle for to build and SOAP UI for testing the services.
* Experienced in writing SQL and PL/SQL scripts.
* Analyze the Code and apply the fix solution for the Issues Identified based on the severity basis.
* Developed queries that are required for the application development and implemented using different logics.
* Developed test classes in **JUnit** for implementing unit testing.
* Batch jobs have been developed using **Spring Batch**.
* Used **SVN** as the version control tool.

**Environment:** Java, Bootstrap, AngularJS, jQuery, HTML, CSS, JQuery, Struts, Spring POJO, Eclipse, Spring MVC, Maven, SVN, AJAX, Apache Tomcat Server, Log4j, Restful web services, WebSphere Application Server, Spring, Oracle, JBoss, JIRA, Jenkins.

**DBS Bank, Hyderabad, India May 2014 – May 2015**

**Role: Jr. Java Developer.**

**Responsibilities:**

* Involved in analysis, specification, design, and implementation and testing phases of Software Development Life Cycle (SDLC) and used **Agile** methodology (**SCRUM**) for developing application.
* Application is implemented using agile methodology where there is a daily SCRUM meeting to understand the status and resolve any issues.
* Involved in combining two web applications into one for a new project.
* Responsible for development of Business logic in Core Java.
* Used **Spring AOP** to capture performance statistics of business logic and DAO layer methods.
* Designed and Developed user interactive screens using HTML5, CSS3, JavaScript, JQuery.
* Created **JSON objects** to store them in Database in **OFFLINE** mode.
* Experienced in Responsive Web Design technology framework like
* **strap**.
* Enhanced user experience by designing new web features and single page applications using **AngularJS**.
* Implemented Single Sign On e-marketing commercial portal site with B2B and B2C sites.
* Implemented **Spring MVC** to achieve Model View Controller design pattern. Configured spring to manage actions as beans and set their dependencies in a spring context file and integrated middle tire with spring web layer.
* Implementing the Coding standards, review the code and fixing all the code review bugs.
* Created all the services to work with various entities provided and rectified the services using APIs using JAX-RS.
* Created application layer POJO classes and mapped them to backend Oracle database tables using Hibernate framework.
* Experienced in writing SQL and PL/SQL scripts.
* Analyze the Code and apply the fix solution for the Issues Identified based on the severity basis.
* Developed queries that are required for the application development and implemented using different logics.
* Developed test classes in **JUnit** for implementing unit testing.
* Batch jobs have been developed using **Spring Batch**.
* Used **SVN** as the version control tool.

**Environment:** Java, Bootstrap, AngularJS, jQuery, HTML, CSS, JQuery, Struts, Spring POJO, Eclipse, Spring MVC, Maven, SVN, AJAX, Apache Tomcat Server, Log4j, Restful web services, WebSphere Application Server, Spring, Oracle, JBoss, JIRA, Jenkins.

Education:

Bachelor’s in Technology- Hyderabad, JNTU-2008.

Master’s in Technology-Hyderabad, JNTU-2010.