

**Sindhu Komalan Nair Santhakumari Amma**

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## SUMMARY

- Over 5 years of experience in Software Analysis, Design, Implementation and Testing of Web Applications using **Java/J2EE Technologies**
- Strong experience in **Spring Framework modules such as Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Microservices, Spring REST, Spring Eureka.**
- Expertise in application development using **Applets, Swing, EJB, JSP, Java Script, Servlets, JDBC, JMS, JSF(Java Server Faces), Hibernate, Spring (including web flow).**
- Well versed in developing **Web-Services** using Top-Down and Bottom-up approaches and configuring them for deployment on the Web-Server.
- Experience in design and development of multi-tier applications using **HTML5, CSS3, JavaScript, AngularJS, jQuery, XML and JSON.**
- Built Restful web API with **Spring, Spring Boot**, and testing APIs using **Postman**.
- Developed core modules in large cross-platform applications using **JAVA, J2EE, Spring 3/4/Boot, Hibernate, JSP, Servlets, EJB, JDBC, Web Services (SOAP, REST), Micro Services.**
- Experienced in implementing **Service Oriented Architecture and Web Services** using **SOAP, REST.**
- Good knowledge and hands on experience in **MVC (c 1.x), spring 2.x** and **ORM (Hibernate 3.0)** frameworks.
- Extensive Experience in developing persistence layer applications based on **Object-Relational Mapping (ORM)** between Java and Database (Oracle) using **Hibernate.**
- Good experience in understanding design patterns and object oriented concepts.
- Broad knowledge of Front End Technologies: **AJAX, JSON, JSTL, HTML, XML, JavaScript, AngularJS and JQuery.**
- Proficient in using **PL/SQL** to write Stored Procedures, Functions and Triggers with strong experience in writing complex queries in **Oracle, SQL Server** and **MySQL.**
- Good experience in various stages of Software Development Life Cycle (SDLC) as well as Software Development Methodologies like **Agile, Scrum, Iterative and Waterfall**
- Good Client **interaction skills, proactive listener, creative problem solver** with proven experience in working independently as well as in a team.
- Good documentation skills on both functional and business requirements.

## TECHNICAL SKILLS

<b>Languages</b>	Java, UML, PL/SQL
<b>Scripting Languages</b>	JavaScript, jQuery
<b>Java Technologies</b>	Java Beans, Servlets, JSP, JDBC, EJB, JSF, JMS, Web-Services, WSDL
<b>Frameworks</b>	Spring, Spring MVC, JUnit, Spring AOP, Spring 4.3, Hibernate 2.0/3.0/4.x, Spring Security 3.2
<b>DBMS/RDBMS</b>	SQL server 2005, Oracle 8i/9i/10g, Access, MySQL

<b>Web Technologies</b>	HTML, AJAX, JSON, JQuery, CSS, SOAP, Restful
<b>Servers</b>	WebSphere, JBOSS Application Server 4.0, Apache Tomcat 4.0/5.0/6.0/7.0/8.0, Apache Http Server
<b>IDE's</b>	Eclipse, Rational Application Developer (RAD), NetBeans IDE, JDeveloper, Spring Tool Suite (STS) 3.8.3
<b>Operating System</b>	Windows 2000/XP/Vista/7, 10/Windows Servers 2008/2012 and 2016, Linux, Ubuntu
<b>Other Technologies</b>	ANT, Maven, CVS, Log4j, HQL, MS Visio, SVN, PL/SQL Developer, Docker
<b>Version Control</b>	SVN, CVS, Github, Bugzilla, Mantis, Bitbucket

## EDUCATION

- M.S (Software Engineering), Kennesaw State University, Georgia, USA , GPA 3.7
- B.Tech (Computer Science), Cochin University of Science and Technology, India , GPA 3.3

## WORK EXPERIENCE

### NGECOM , Frankfurt, Germany (06/2019 - 12/2019) Senior Software Engineer

**An Ecommerce Shopping Cart :** This project deals with developing an e-commerce website for Online Product Sale. It provides the user with a catalog of different products available for purchase in the store. In order to facilitate online purchase a shopping cart is provided to the user.

#### Responsibilities:

- Gathered and analyzed the requirements and converted them into User Requirement Specifications and Functional Requirement Specifications.
- Design and developed **Restful microservices** using **Spring Boot** Application compatible with Pivotal Cloud Foundry
  - Involved in **designing, developing, bug fixing, documenting and unit testing the application.**
  - Implemented **MVC pattern** using **Spring MVC, Spring Boot.**
  - Developed the User Interface screens using **AngularJS, Java script, HTML 5, jQuery, and CSS3.**
  - Developed Micro services & APIs using **Spring Security, Spring Boot, Spring Integration.**
  - Build, Test and develop applications from **Docker** containers and deployed into the PCF environment.
  - Developed Business logic with the help of Spring and Data Access was implemented by using **Hibernate.**
  - Used spring framework in the development of a business bean and to interact with the **Hibernate ORM** tool.
  - Used shell scripting to automate the batch process and run SQL scripts
  - Implemented SOA to retrieve data from client side and made REST API calls and parsed the data to client and handled the security and Authorization using Spring Security.
  - Used Java Message Service JMS API for reliable and asynchronous exchange of important information
  - Used Spring Data **Cassandra** and Spring Data Rest for exposing the data stored in DB to application.
  - Performed REST validations and created REST exception Handlers and used Postman to test REST services.
  - Developed unit test cases using **Junit, Spring** to test **REST microservices.**

- Used Apache Maven as a build tool for building the Restful web-service.

**Environment :** Linux, Java , Spring, Spring boot, jQuery , Log4J, Maven, JUnit, SVN, Hibernate, Ajax, HTML, CSS, AngularJS, Cassandra, Spring Eureka, Spring STS

### **NGECOM , Frankfurt,Germany (06/2018 - 05/2019) Senior Software Engineer**

A Billing Portal for managing the Application, Billing information, Users and Organizations. This is a database driven application with invoice generation, billing information search, user search, organization search, create user and organization, application management, application request management, alerts and billing scheduling.

#### **Responsibilities:**

- Designed the Software Development Life Cycle (SDLC) as per the application requirement and gathered the required requirements to the application.
- Used Spring Dependency Injection for plugging in the **Hibernate** DAO object for the business layer.
- Used **Docker** as a container for **Creating, Deploying** and running applications.
- Deployed applications in **Kubernetes Clusters**, running on **Docker Hub**.
- Implemented REST Microservices using **spring boot**. Generated Metrics with method level granularity and Persistence using Spring AOP and Spring Actuator.
- Extensively worked on **Spring JDBC, Spring Hibernate ORM** and **JPA** for data persistence.
- Used **Postman** and **Swagger** to test the RESTful API for HTTP requests such as GET, POST, and PUT.
- Used **JSON** as response type in **REST** services.
- Used **Spring Core** Annotations for Dependency Injection.
- Used **Tomcat server** for the application development and deployment and **JIRA** for issue tracking.
- Used **Log4J** API for logging and used **JUNIT** framework for Unit testing of application.
- Used **Maven** for dependency and configuration management to add dependent **external** jars and bundles, run and deploy the application.

**Environment:** Spring, JMS, Hibernate, Spring Batch, Eclipse, SVN, Oracle, Check Style, JUnit, Mavan, CSS, HTML, SQL Developer, Eclipse, ,JIRA

### **SWAMI CYBER SOLUTIONS PVT. LTD, INDIA PROJECTS**

#### [www.realtybargains.com](http://www.realtybargains.com), NY, US (05/2005 - 08/2009) Software Engineer

A multi tiered database driven web application developed for Realty Bargains, Inc. The website is basically a search engine, having options for general search and map based search with the user specified parameters.

- Involved in creation of Low-Level Design including **sequence** diagrams and **class** diagrams
- Design and developed the application using **Spring Framework** which is based on Model View Controller design pattern
- Developed user interface using **JSP, JSP Tag libraries** and **Struts Tag Libraries** to simplify the complexities of the application.
- Developed the presentation tier using **HTML, CSS, JSP, Servlets, JSTL, Ajax** and **Jquery**.
- Involved in the integration of Spring for implementing Dependency Injection.
- Developed code for obtaining bean references in **Spring IOC** framework.
- Focused primarily on the MVC components such as **Dispatcher Servlets, Controllers, Model and View Objects, View Resolver**.

- **Used JMS API** for asynchronous communication by putting the messages in the Message queue, such as PDF, Excel report generation
- Involved in creating the **Hibernate POJO** Objects and utilizing **Hibernate Annotations**.
- Used Hibernate, object/relational-mapping (ORM) solution, technique of mapping data.
- Worked in an **Agile** development environment.
- Asynchronous messaging is executed by utilizing **JMS API** for point-to-point messaging.
- Implemented various design patterns in the project such as **Business Delegate, Session Façade, Data Transfer Object, Data Access Object, Service Locator and Singleton**
- Involved in writing Mysql **Stored procedures, triggers, views**.
- Involved in the implementation of **DAO using Spring-Hibernate ORM**.
- Used **Tomcat** server to deploy and restart web applications.
- Used **Hibernate, object/relational-mapping (ORM)** solution, technique of mapping data.
- Developed the application using Eclipse as the IDE and **SVN** version control
- Involved in the creation of exhaustive JUnit Unit Test Cases using **Test Driven Development (TDD) technique**.

**Environment:** JDK 6, J2EE, Spring, Hibernate, JMS, JavaScript, JSP, XML, XSD, XSLT, Mysql , Ant, JUnit, Agile/Scrum Methodology, SVN Version Control, Tomcat, Eclipse, DAO, Design patterns, Log4j.

#### **Bootstrap Software, Inc. NY, US (Jan 2007 – June 2007 )Software Developer**

[Brahma.com](http://Brahma.com) is multilingual with initial support for English, Russian and Portuguese. Access to this site is restricted to users of legal drinking age.

- Designed the Software Development Life Cycle (SDLC) as per the application requirement and gathered the required requirements to the application.
- Developed Business logic with the help of Spring and Data Access was implemented by using **Hibernate**
- Used spring framework in the development of a business bean and to interact with the **Hibernate ORM** tool.
- Effectively participated in weekly client communications with Business Analysts.
- Responsible for the Design and development of the Deals and maintenance and Report modules.
- Used advanced level of **HTML, XML, AJAX, JavaScript, CSS2** and pure **CSS** layouts.
- Identified and resolved major critical bugs during the development phase.
- Involved in Integration, Code Reviews and deployment activities.
- Production issues investigation and supporting business users.
- Prepared Change Request business documents and participated in testing.

**Environment:** Linux, Java, Spring framework, Oracle , Hibernate, Eclipse, Jboss, Log4j, Mantis, SVN, HTML, XML, AJAX, JavaScript

#### **Sonibyte Podcasting VoiceOver Services, Inc, US. (Feb 2008 – June 2008) Software QA**

**Description:** Sonibyte.com is a web application that provides solutions for content owners who want to convert their content into podcasts and other audio offerings. Users who want to convert their content to podcasts can visit the website and submit their text. The text will be later recorded and uploaded as podcasts, which can be made available through rss channels. The making process of the podcast goes through several phases and is finally uploaded into the client site as required audio stream. This J2EE based web application facilitates public users as well as the internal users of the site in various phases of Podcast creation. It is used as a job tracker, Podcast feed tracker, with various user levels with appropriate permission sets.

**Responsibilities:**

- Involved in writing and implementation of the test plan. Analyzed business requirements document and developed test plan, test objectives, test Strategies, test priorities, test cases etc.
- Prepared Test cases for the module and tested the application manually.
- Performed Functional testing, GUI testing and Regression testing. Performed load testing using Jmeter.
- Detecting bugs & classifying them based on the severity, done test evaluation and reported the Test Defect using Mantis.

**Environment:** Linux, Mantis, Jmeter