# KESAV NALLAN

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**A Java / J2EE developer with over 15 years of IT experience in application development, object-oriented programming, and internet/intranet-based applications. Developing, Testing and implementing applications using Angular, Spring, JSF, Struts, Hibernate, Web Services, Experience in Java script Libraries such as Angular, React, ExtJS etc. Experience in Full Software Development Life Cycle including Analysis, Design, Development, Testing, Deployment, Production Support, Enhancement and Maintenance**

**SUMMARY**

* Extensive experience in **J2EE Frameworks** such as **Spring MVC, Spring JPA, Spring Rest, Struts, JSF, Hibernate** etc.
* Developed applications using JavaScript libraries such as **Angular, React, Next.Js, ExtJS, NodeJs, Backbone, UnderScore, jQuery etc.**
* Experience in building enterprise Applications and Distributed Systems using **Core Java, J2EE Servlets, JSP, JSF, EJB, STRUTS, Hibernate, SPRING, JDBC, JMS and XML.**
* Excellent knowledge in **Spring Framework**, **Object Relation Mapping** using Hibernate
* Worked with Relational Database Management Systems including **Oracle, MySQL, PostgreSQL,** **Amazon RDS, SQLite & DB2.**
* Extensive Knowledge on **SQL, PL/SQL, Queries, Views & Stored Procedures.**
* Extensive Knowledge on No-SQL Database including **MongoDB, MarkLogic, DynamoDB**.
* Involved in designing and developing **AWS** **EC2, S3, ELB, RDS, SQS**, and **Other Services**.
* Experience working with Web Services using **SOAP, REST.**
* Hands-on experience in working with XML related technologies such as DOM, SAX, XML Schema, XSL, XSLT, DTD, XSD, JDOM, JAXB, JAXP, XPATH and XQuery.
* Extensive experience in unit testing using **JUnit, Integration and Mockito.**
* Solid Experience in generating Feature files using **Cucumber in Gherkin.**
* Developed Test Automation Using **Cucumber, Selenium** and configured in **Jenkins.**
* Used **Jasmine** with **Karma** to write tests cases and performed testing using **Protractor**.
* Experience with Developing Test Suites in **SOAPUI** tool for **REST** and **SOAP** Web Services.
* Build and Deployed applications on **Spring Boot**, **Tomcat, JBoss** and **WebLogic** Servers.
* Build and Deployed applications using tools **ANT, Maven** and **Gradle** in **Jenkins**, **Hudson.**
* Extensive experience in Integrated Development Environment (IDE) such as **Eclipse, IntelliJ, NetBeans, JBuilder, JDeveloper, WSAD.**
* Designed projects using **Design Patterns** and **UML** with **use cases, Class Diagrams, Object Diagrams, Decomposition Diagrams and State Transition Diagrams**, **Rational Rose.**
* Experience with **CVS, SVN** and **GIT** version control tools for code commit and update.
* Experience in the analysis of defects, tracking issues and fixing them using **JIRA.**
* Coordinated with Teammates in Code Reviews for Documenting and **Best Coding Practice.**
* Worked under **Agile** (XP, Scrum, TTD), **Waterfall**, RUP methodologies.
* Coordinated with **QA** **team** to ensure the quality of application & Business Analysis’s.
* Experienced in the development of **Test Plan, Test Scenarios and Test Cases**.
* Experience in all phases of **Software Development Life Cycle (SDLC)**, which includes **User Interaction**, **Business Analysis/Modeling**, **Design/Architecture, Development, Implementation, Integration, Documentation, Testing, and Deployment**
* Ability to work with **Business Functions** to understand **Business Requirements**, work under and make work flow procedures and **Develop Technical Specifications**
* **Excellent Communication, Team work, inter-personnel, presentation skills and self-starter** who grasps quickly and is always willing to take on a variety of tasks with **progressively increasing technical complexity**.

**SKILL SET**

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| **J2EE Technologies** | Spring, Spring Boot, JSF, Struts, EJB, JNDI, RMI, JDBC, JSP JSF, Struts, Tiles |
| **Web Technologies** | HTML, DHTML, XHTML, Swing, JSP, XML, XSL, XSLT, Servlets, JSP, JSTL, SOAP, REST |
| **Programming Languages** | Java 1.5, 1.6, 1.8, 11, 17, HTML, Visual Basic, JavaScript, TypeScript, Angular, SQL, PL/SQL |
| **Application Servers** | WebLogic, Apache, Tomcat, IIS, Java Web Server, JBoss |
| **JavaScript Frameworks** | Angular, AngularJS, React 18, NextJS, RxJS, NgRx, Node JS, Backbone, Underscore, JQuery |
| **IDE and Tools** | Eclipse, Intellij, WSAD, NetBeans, Sublime, Visual Studio |
| **Databases** | Oracle, Sybase, DB2, MySQL, PostgreSQL, MongoDB, MarkLogic |
| **Object Oriented Analysis** | Unified Modeling Language (UML), Rational Rose Enterprise Edition |
| **Configuration Management Tools** | CVS, SVN, GIT, Jira, Jenkins, Hudson, Confluence, Bit bucket, Sonar Cube, Rational Clear Case, Clear Quest, Docker, Kubernetes |
| **Testing Tools** | QTP, Selenium, Cypress, JUnit, Mockito, Test Director, HP Quality Center, SOAP UI Pro. |
| **Operating Systems** | Unix/Linux platforms (AIX, Ret Hat, Sun OS, Solaris) Windows 9X/NT/ME/2000/XP, Macintosh, DOS |

**PROFESSIONAL EXPERIENCE**

**U.S. Food and Drug Administration November 2018 – Current**

**Sterling, Virginia**

**Sr. Java Full Stack Developer**

**Projects: ALIS, RES, AMS, FACTS (SCAIL)**

The Recalls Enterprise System (RES) allows users to complete all activities that are part of managing the lifecycle of a recall. You can create new recalls, search for recalls, edit/ update information for existing recalls, submit recall recommendations, classify recalls, and terminate recalls.

Assignment Management Service (AMS) allows you to create Assignment and Operations for field users and then can be consumed by external systems.

**Roles & Responsibilities**

* Developed the application using Angular, Rest, Spring Boot, Spring MVC and Spring JPA, Hibernate in Eclipse, IntelliJ, VSCode IDE.
* Persisted NoSQL Data into MongoDB, and Relational Data in PostGreSQL and Oracle DB.
* Made use of Eclipse plugin tools to debug and implementing clean code.
* Created Angular components like controllers, services, directives, and forms.
* Created reusable Custom pipes and Directives for filter and sorting for table columns for Table.
* Created Angular components, implemented Interpolation, Bootstrapping, NgFor, NgIf, Router Outlet, event binding, and decorators.
* Implemented Routing to navigate between the components using the Angular Router module.
* Utilized @Input and @Output to transfer data between Parent and Child Components.
* Extensively used RxJS library and integrated Observables, Subjects and Promises for Async Calls.
* Implemented RxJS operators such as Maps, Transformations etc.
* Used Jasmine framework with Karma to write tests cases and performed testing using protractor.
* Worked with Twitter Bootstrap framework making use of grids, advance components like Navbars, Pagination, Alerts, Progress bars etc.
* Involved in the spring controller development using spring MVC, spring security and spring core, Spring Data, Spring Integration modules etc.
* Conducted API testing using tools like Postman, JMeter, or SoapUI to validate functionality.
* Created API documentation using tools like Swagger for developers and stakeholders.
* Extensively used Bootstrap styles for look and feel the application user friendly.
* Generate and exported reports in Excel and PDF patterns.
* Created custom Spring Components, Services, Repositories, Converters and Validators
* Designed and coded application components in test driven development approach.
* Used design patterns such as Singleton, Factory, Façade, Abstract, Builder etc.
* Developed Business Service layer using Spring Services.
* Implemented Spring Security for Users Authentication and Authorization.
* Created Spring Beans using Configuration in Java.
* Designed and developed the Object Relational mapping using Hibernate.
* Developed and consumed SOAP web services to interact with external systems.
* Designed and developed Entities using JPA and Hibernate Annotations.
* Developed Repository Implementations for Entities for CRUD Operations.
* Created SQL Queries for complex entities.
* Used MongoDB internal tools like Mongo Compass, Mongo Atlas Manager.
* Created various types of indexes on different Collections to get good performance.
* Implemented Spring Mongo for Data Access Layer.
* Implemented and saved documents, JSON data in MongoDB.
* Developed and deployed web application using AWS services such as EC2, S3, and Lambda.
* Designed and developed RESTful APIs using AWS API Gateway and Lambda.
* Developed and maintained cloud infrastructure using AWS services such as CloudWatch.
* Developed Spring Configurations, Components and Services for Spring Bean.
* Designed & developed Data Transfer Objects to carry the data between diff. layers.
* Developed Entity classes for Database table using Hibernate JPA.
* Designed and developed Entities using JPA and Hibernate Annotations.
* Transferred files to remote servers and retrieved using Spring Integration.
* Developed test cases for Unit testing using JUnit, Integration using TestNG and Mockito.
* Implemented JUnit for SonarQube to code coverage over 90%.
* Implemented Fortify Scan to check for Security vulnerabilities
* Developed feature files from user acceptance from JIRA.
* Generated Java classes from the feature files using Cucumber.
* Used Selenium Web drivers Firefox, Chrome to instantiate browsers.
* Performed build acceptance testing and smoke testing using Cucumber automation tool.
* Developed BDD (Behavior driven development) based programs using Gherkin for cucumber.
* Developed functional/regression scripts utilizing Gherkin, Cucumber, Java.
* Develop and implement automation frameworks using Cypress to enhance scripting, maintenance
* Continuous Integrate Selenium Scripts with CI Build tool Jenkins & Maven.
* Created Gherkin features and execution of Automated Behavior Data Driven scripts.
* Automated the management, scaling and deployed applications in Kubernetes.
* Generated Containers and Docker Images for Kubernetes Clusters.
* Build and Deployed Applications on Development, Test, UAT using Jenkins CI/CD Pipelines.

**Environment:** Angular 17, RXJS, Node.Js, Docker, Kubernetes, AWS Gateway, Java 18, Spring Boot, SOAP, REST, JPA, Hibernate, AWS, JUnit, Mockito, GIT, Maven, Jenkins, Eclipse, VSCode, Weblogic, Oracle, PostGreSQL, Mongodb, Compass, SonarQube, Fortify, Selenium, Gherkin, Cypress.

**U.S. General Services Administration May 2016 – November 2018**

**Reston, Virginia**

**Sr. Java Full Stack Developer**

**Project Description**

Energy Usage Analysis System is a web-based application which serves Energy Center of Expertise users for tracking energy details for various energy sources namely electricity, natural gas, and oil chilled water, steam, renewable energy and others.

**Roles & Responsibilities**

* Developed the application using Angular, Rest, Spring Boot, Spring MVC and Spring JPA, Hibernate in Eclipse, VSCode IDE.
* Created Angular components like Controllers, services, directives, and forms.
* Developed Web REST API using Spring MVC framework and deployed on Spring Boot.
* Designed and developed Entities using JPA and Hibernate Annotations.
* Migrated, modernized the application from on-premises and hosted on AWS, keeping the scope, security and integration points.
* Developed and deployed web application using AWS services such as EC2, S3, and Lambda.
* Designed and developed RESTful APIs using AWS API Gateway and Lambda.
* Developed Entity classes for Database table using Hibernate JPA.
* Developed Repository Implementations for Entities for CRUD Operations.
* Created SQL Queries for complex entities.
* Developed Spring Configurations, Components and Services for Spring Bean.
* Designed & developed Data Transfer Objects to carry the data between diff. layers.
* Created Angular components like controllers, services etc. and forms using Angular Materials
* Developed Entity classes for Database table using Hibernate JPA.
* Extensively used Bootstrap styles for look and feel the application user friendly.
* Developed and consumed SOAP web services to interact with external systems.
* Transferred files to remote servers and retrieved using Spring Integration.
* Developed test cases for Unit testing using JUnit, Integration using TestNG and Mockito.
* Developed SOAPUI Test cases to test Web Services.
* Persisted Data in Oracle and Sybase.
* Develop and implement automation frameworks using Cypress to enhance scripting, maintenance
* Build and Deployed Applications on Development, Test, UAT using Jenkins CI/CD Pipelines.

**Environment:** Angular, Node.JS, Spring Boot, Bootstrap, Json, CSS, Restful Web Services, Spring, Hibernate, XML, Log4j, Oracle, Cypress, JUnit, UNIX, GIT, SVN, Maven, Jenkins, JBoss and Eclipse.

**United States Courts June 14 – April 16**

**Washington DC.**

**Sr. Java J2EE Developer**

**Project Description**

The NexGen Calendar is an online application, which provides a way to schedule civil and criminal case events, personal events to Courts or Judges. Courts are of three different types District, Appellate and Bankruptcy. The Calendar application is smart to provide scheduling dates to criminal, civil cases based on resource availability such as courtrooms and associated hardware’s like Projector etc.

**Roles & Responsibilities**

* Developed the application using JSF, Prime faces, REST Web Services in Eclipse.
* Extensively used Primefaces components such as Accordions, SelectoneMenu, and Datatable etc.
* Used AJAX for getting data for individual fields and submitting individual fields.
* Created custom Components, Converters and Validators for reusability.
* Integrated jQuery in JSF pages to update multiple components using CSS and ID selectors.
* Designed and coded application components in test driven development approach.
* Used design patterns such as Singleton, Factory, Façade, Abstract, Builder etc.
* Created Spring Scheduler to generate files using Cron expressions in Spring Integration
* Created Spring Beans using Configuration in Java
* Created Repositories using Spring Data JPA
* Designed and developed the Object Relational mapping using Hibernate.
* Designed and developed Entities using JPA and Hibernate Annotations
* Developed Repository Implementations for Entities for CRUD Operations
* Created SQL Queries for complex entities.
* Saved data in Sybase, Oracle.
* Developed Spring Configurations, Components and Services for Spring Bean
* Designed & developed Data Transfer Objects to carry the data between diff. layers.
* Transferred files to remote servers and retrieved using Spring Integration.
* Build and Deployed Applications on Development, Test, UAT using Jenkins CI/CD Pipelines.

**Environment:** JSF, Primefaces, Spring Boot, Eclipse, JavaScript, JQuery, CSS, SOAP, REST Services, Spring Integration and JPA, SVN, Hibernate, XML, Log4j, Oracle, JUnit, UNIX, Maven, Jenkins, Agile, JBoss.

**Obama Care April 2012 – May 2014**

**Herndon, VA**

**Sr. Java Developer**

**Project Description**

The application allows individual or employer to shop insurance plans, enroll and manage plans online through marketplace which in turn gets the prices from different insurance companies from state run exchanges to serve individual needs for health insurances. Health insurance companies as Aetna, UHC, and BCBS etc. Parameter Management is a part of Financial Management Module which will search the price quotes for the current and future rates based on the parameters and also creates the rates for future.

**Roles & Responsibilities**

* Developed the UI application using Backbone, Underscore, Rest Services, Spring MVC in Eclipse.
* Developed Backbone Models, Views and Collections and triggered events from Views and Models.
* Used various underscore library functions to handle and validate Json objects.
* Designed & developed the application using Spring MVC Framework.
* Developed Remote Service Interface and Remote Object Interface and their Implementations.
* Developed Restful Web Services using Jersey Framework.
* Developed and consumed SOAP web services to interact with external systems.
* Designed and developed Entities using JPA and Hibernate Annotations for Entities.
* Developed Repository Implementations for Entities for CRUD Operations.
* Involved in writing the associations for the query in mapping xml files in Hibernate.
* Designed & developed Data Transfer Objects to carry the data between diff. layers.
* Build and Deployed Applications on Development, Test, UAT.
* Developed test cases for Unit testing using JUnit and performed integration and system testing.
* Developed SOAPUI Test cases to test Web Services.
* Developed test automation using Cucumber, Gherkin.
* Developed SQL Queries to retrieve data from Oracle Database.

**Environment:** Backbone, Underscrore, JQuery, Json, CSS, Restful WebServices, Spring Core, Spring MVC, Hibernate, JUnit, Mockito, Cucumber, Gherkin, Log4j, Oracle, JUnit, UNIX, SVN, Maven, Jenkins, and Eclipse

**National Institute of Health June 2009 – March 2012**

**Rockville, Maryland**

**Sr. Java Developer**

**Project Description**

The NIH provides financial support in the form of grants, cooperative agreements, and contracts. This assistance supports the advancement of the NIH mission of enhancing health, extending healthy life, and reducing the burdens of illness and disability. NIH awards many grants specifically for research, fellowship and training, career development, scientific conferences, resource and construction.

**Roles & Responsibilities**

* Designed & developed the application using Struts, Tiles, Spring and Hibernate in Eclipse.
* Developed the application Struts 2 tag libraries and Java Script.
* Developed Pagination for Search Results using Display Tag.
* Implemented asynchronous, AJAX based rich client for improved customer experience.
* Used AJAX for getting data for individual fields and submitting individual fields.
* Manage i18n(Internationalization) project - translating all aspects of the application.
* Designed and Refactored Code for enhancements & change requests.
* Developed Remote Service Interface and Remote Object Interface.
* Designed and developed the Object Relational mapping using Hibernate.
* Involved in writing the associations for the query in mapping xml files in Hibernate.
* Involved in writing SQL Stored Procedures, Functions and Views.
* Designed & developed Data Transfer Objects to carry the data between diff. layers.
* Designed and Developed Downloadable Jasper Reports in PDF, Excel and word format.
* Developed test cases for Unit testing using JUnit and performed integration and system testing.
* Developed SQL Queries to from Oracle Database.
* Provided Production support for external users.
* Designed the application with reusable J2EE design patterns.

**Environment:** Struts 2.0, spring, Hibernate, Jasper Reports, Log4j, JUnit, JavaScript, CSS, Oracle 10g, Display Tag, UNIX, SVN, ANT, JDeveloper, Tomcat, Apache, LDAP.

**Verizon Business June 2007 – April 2009**

**Colorado Springs, Colorado**

**Sr. Java Developer**

**Project Description**

The scope of the Circuit Pricing Tool is to provide the users with a mechanism to change pricing arrangements at the service level for individual components, circuits, or access.  The CPT will provide a means to place a service on hold, prior to billing, in order to override the charge for that particular component so that it matches the customer's contractual agreement with Verizon.

**Roles & Responsibilities**

* Designed & developed the application using Web Logic Portal 10.3, ALSB, DSP, WLI.
* Developed the application Using Java Page Flow Controllers.
* Developed Portlets using JPF’s and JSP’s.
* Developed Screens using various Netui tag libraries.
* Used AJAX for getting data for individual fields and submitting individual fields.
* Created CSS Files for styles to the entire application.
* Build and Deployed Applications on Development, Test, UAT and Production Environments.
* Designed and Developed Downloadable Jasper Reports in PDF, Excel and word format.
* Developed Java Web Services using WebLogic.
* Designed and Developed XML Schemas using XML Spy.
* Developed Physical and Logical Data Services in Aqua Logic Data Services Platform.
* Developed Java Process Definitions using Weblogic Integration Created JDBC Connection Pool.
* Created Proxy Services for Business Service to get access to Service Clients on ALSB.
* Created Screen Flows, Roles and Participants for a particular process in ALBPM.
* Created JMS Queues and Bridges on BPM, ALSB, WLI and WLP Servers.
* Developed test cases for Unit testing using JUnit and performed integration and system testing.

**Environment:** Weblogic 10.3, WLI, WLP, ALDSP, ALBPM, ALSB, JSP’s, Net-UI, AJAX, JQuery, CSS, Java Web Services, XQuery, XML, Log4j, DB2, Oracle, JUnit, UNIX, CVS, Eclipse.

**United Health Group May 2006 – May 2007**

**Atlanta, Georgia**

**Java J2EE Developer**

**Project Description**

TSYS Prepaid (TPI), a subsidiary of TSYS Corporation, has been engaged by United Healthcare Group (UHG) to build, integrate and deploy a series of card processing solutions in the healthcare space primarily to UHG’s customers nationwide.

**Roles & Responsibilities**

* Designed & developed the applications using Spring Framework
* Designed the application with reusable J2EE design patterns
* Responsible for Production Support
* Analyzing the client requirements and production issues
* Design and Development for enhancements & change requests
* Designed GUI Portals / Screens using JFC and Swing components
* Wrote Action Classes, ActionServlets, Action Forms, Java Server Pages (JSPs), Data Bean to implement MVC framework
* Responsible for trouble shooting the production issues
* Developed web pages using JSP, JSTL, JSF
* Utilized Stored Procedures, views for implementing database level business logic
* Closely worked and supported the Infrastructure team for building and deploying the application in JBoss Server on Unix
* Developed test cases for Unit testing using JUnit and performed integration and system testing

**Environment:** Weblogic 10.3, WLI, WLP, ALDSP, ALBPM, ALSB, JSP’s, Net-UI, AJAX, JQuery, CSS, Java Web Services, XQuery, XML, Log4j, DB2, Oracle, JUnit, UNIX, CVS, Eclipse.

**EDUCATION**

**Masters in Computer Science May 2004 – April 2006**

GPA: 3.78

South Dakota School of Mines and Technology

Rapid City, South Dakota

**Bachelors in Computer Science May 2000 – April 2004**

GPA: 3.60

Bangalore University

Karnataka, India