Satish Kumar
Java Full Stack Developer
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PROFESSIONAL SUMMARY:

- Extensive Full Stack Developer with 8+ years of experience in Client and Server-Side Enterprise Applications development using J2EE/JAVA technologies using SDLC and frameworks like spring, JPA, Hibernate and MVC framework struts.
- Experience in developing Single Page Application (SPA) using **AngularJS, Routing, Controllers, Services**, and **Custom Directive.**
- Good experience developing enterprise applications using **Spring**, **Hibernate**, **JavaBeans**, **Servlets**, **Struts, XML Mapping**, **Ant, Ivy** and **Maven.**
- Developed User Interface using **HTML5, CSS3, JavaScript, Dojo, AngularJS, ReactJS, jQuery, and Bootstrap** for providing user interface and communication between the client and server.
- **Java/J2EE** development experience working within frameworks such as **Spring, Hibernate or Struts.**
- Experience in the development of service-oriented architecture application, good understanding of Object Oriented Design and Design Patterns.
- Experience with relational databases such as **MySQL, PostgreSQL, SQL Server, Oracle, DB2 and** experience in writing stored procedure Functions and Triggers using **PL/SQL.**
- Experience in design/development of web applications using **Java, JSP, J2EE, Servlets, JMS, MVC Framework, Web Services, XML, XSD, JSON, and JAXB.**
- Experienced in front-end framework such as **Bootstrap and Angular; NoSQL databases, Cassandra and MongoDB, Node.js**
- Extensive knowledge in working with J2EE technologies such as **JSP, Servlets, JDBC, JMS, Spring, Hibernate,** Web Services, Design Patterns.
- Portable deployment of applications as a single object using **Docker.**
- Experience in various Agile methodologies, Waterfall & amp; Test Driven Development (**TDD**).
- Experience in Web Services Technologies like **JAXP, JAXB, SOAP, JMS** and Service Oriented Architecture (**SOA**).
- Experience in using **Log4j** and good expertise in **Ant Tool.**
- 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.
- Experience in designing **UML diagrams using Rational Rose and Microsoft Visio.**
- Experience in handling messaging services using **Apache Kafka.**
- Strong technical knowledge in MS SQL Server development including **DTS**, Performance tuning, Reporting, Designing logical/physical databases and Troubleshooting.
- Extensive in-depth knowledge in OOAD concepts of Use Cases, Activity Diagrams, Sequence Diagrams and Class Diagrams using UML.
- Experience in Developing testing plans and procedures for unit test, system test, and acceptance test.
- Experience in working with multiple Servers like **Web Logic, JBoss and Apache Tomcat.**
- Extensive development experience on different IDE's like Eclipse, My Eclipse, Net Beans, Maven, and **WSAD/RAD.**
- Experience with **Hibernate Persistence Framework** and hands on Experience in solving design issues by applying design patterns including Model-View-Control (**MVC**), Data Access Object (**DAO**), Data Transfer Object (**DTO**), Singleton, Factory patterns, Business Delegate in the development of multi-tier distributed applications.
- Experienced in developing web-based applications using **Java/J2EE, Servlets, Struts, Spring IOC, Spring MVC, Spring AOP, Spring Security, Spring Boot, JDBC, Web Services (SOAP & RESTful services)** and **ORM** frameworks like **Hibernate**
- Good Working knowledge in **CVS**, Perforce, ClearCase and **GIT** open source version control systems.
- Good understanding of object-oriented programming (OOP) concepts like Inheritance, Polymorphism, Encapsulation and Abstraction.
- Strong Experience in developing test cases using **JUnit, Easy Mock** and **Spring** Test Case framework.
- Experience with **WCAG 2.0 level A & AA success criteria and** widespread knowledge on **US ADA** for digital assets to fix HTML, CSS and JavaScript issues**.**
- Widespread experience on accessibility standards & laws and code core components: HTML5, SCSS, JavaScript, **WCAG 2.0, WCAG 2.1, CVAA, ADA, Section 504, and Section 508.**
- Strong technical skills, high sense of ownership, good problem-solving skills, and client focused approach, fast learner and cohesive team player.

TECHNICAL SKILLS:

JAVA TECHNOLOGIES	Core Java, Collections, JDBC, Multi-threading, AWT, JSP, Servlets, JSTL, JNDI, Ajax, EJB, JMS, Java Beans, Custom Tags, RMI, JCAPS, Design Patterns, Spring
WEB TECHNOLOGIES	PHP 5, JavaScript, jQuery, Prototype, CSS3, HTML, HTML5, XML(SAX, DOM), XSL/XSLT, XPATH
Application Servers	Apache Tomcat, Glass Fish, IBM WebSphere, JBoss, WebLogic
Web Services	SOAP, APACHE CXF, AXIS, XFire, JAXP, JAXB, JMS, WSDL(JAX-WS), UDDI, REST(JAX-RS)
Framework	Spring, JPA, Hibernate, Struts
Database	MySQL, PostgreSQL, SQL Server, Oracle, DB2, Cassandra and MongoDB
Scripting Language	Linux/Unix Shell Scripting, JavaScript
Version Control	GitHub, Bitbucket, Git, ClearCase
Web Frameworks	AngularJS, NodeJS, ReactJS
Designing Tools	Balsamiq (Wireframing), InVision, Adobe In-design, Photoshop, Illustrator, Muse, Dreamweaver, Bootstrap, WordPress
IDEs	Spring Tool Suite, Maven, Eclipse IDE, RAD Websphere, NetBeans, RAD, WSAD, JBuilder, JDeveloper, Visual Studio.NET, Toad, Putty, JUnit, Log4j.
Other Tools	Ant, Ivy, Maven, Jenkins, Cruise Control, ClearCase, ClearQuest

PROFESSIONAL EXPERIENCE:

Department of Child Support Services, State of California, Sacramento, CA   **June 2019 – Sep 2023**
Application Developer III

Description: Customer Connect
Customer Connect is California Child Support's self-service platform, giving you 24-7 access to the information you need about your case.
The secure, self-service website allows you to contact your caseworker, receive reminders and updates, see your payment history and other information, update your contact information and change your log-in credentials any time, from anywhere.

Responsibilities:
- Re engineered the existing legacy application into a web based application using the latest web technologies.
- Developed J2EE web application using the Java 7, multi-threading, **Spring MVC 4.1.0, spring-jdbc** and implemented caching in the application using IBM dynacache.
- Developed DB2 stored procedures on DB2 Database. Developed Hibernate services, Data Objects and Data Access Objects to access DB2.
- Build **REST** web service by building **Node JS** Server in the back-end to handle requests sent from the front-end **JQUERY**,**AJAX** via **JSON** .
- Used JPA to fetch data from database to avoid any dependency on database tables.
- Implemented User Interface and integrated with backend code, Node.JS as server side technology for the feedback system.
- The complete feedback system was designed using **MEAN (MongoDB, ExpressJS, AngularJS, NodeJS**) stack technologies for quick response and throughput.
- Integrate the dynamic pages with **Angular 5 and jQuery** to make the page dynamic. Used Backbone.JS for passing on data from HTML forms.
- Used **JMS MQ** (Message Queues) for reliable and asynchronous exchange of important information between multiple business applications using Quartz Scheduler library. Developed custom exception handling mechanism to handle errors/exceptions.
- Developed **JUnit test** cases to unit test the business logic. Supporting System Test and User Acceptance Test.
- Used **Apache camel** to integrate the different applications using protocols like **http, Active MQ and JMS**

- Used **Spring MVC** components to implement business layer and **Spring Boot** for **Micro-services**.
- Set up Jenkins server and build jobs to provide continuous automated builds based on polling the Git.
- Configured and deployed web application in **JBOSS** Server using ANT tool.
- page layouts while adhering to **code standards**.
- Used advanced level of **HTML5, JavaScript, CSS3 and pure CSS layouts (table less layout).**
- Deep technical hands-on experience developing RESTful APIs in **Spring Boot** framework, ideally with Pivotal Cloud Foundry (PCF).
- Designed and developed the REST based Microservices using the **Spring Boot**.
- Used Apache Maven build tool to automate the build process and **Jenkins** CI for continuous integration.
- Created Typescript reusable components and services to consume REST API's using Component-based architecture provided by **Angular 5.**
- Implemented stable **React components** and **stand-alone functions** to be added to any future pages.
- Used **React JS** for **templating** for faster compilation and developing reusable **components**.
- Used **React-Autocomplete** for creating **google maps** location search on the webpage.
- Design and Implement Database Schema, import data and build stored procedures on SQL Azure.
- Developed the application using Struts Framework that uses Model View Controller (MVC) architecture with JSP as the view
- Developed microservices and API's using Core Spring, spring MVC and used JMS(java messaging service) as messaging system between the API's and microservices
- Performed UI accessibility advising & consulting to team to make robust HTML, CSS, JavaScript code following with **Section 508 the Rehabilitation Act, ADA, WCAG 2.0, and WCAG 2.1 success criteria of level A, AA, and AAA.**
- Performed **audits on multiple web apps** following with **WCAG 2.0 and 2.1** standards using accessibility automated tools set **like ANDI, Perfecto, WAVE, aXe, and WAT**, screen reader tools like JAWS, NVDA, Voiceover, Talkback, Narrator, and ZoomText.
- Followed Agile Software Development Methodology and Test Driven Development (TDD) to build the application iteratively and incrementally. Participated in scrum related activities and Daily Scrum Meetings.
- Performed Design review and Code review for well-known performance practices for better performance and code maintainability.

Environment: Java 1.7, Spring, Jenkins, Maven, SVN, JMS, DB2, Postgresql, Mongo DB, HTML4/5, CSS2/3, JavaScript, Angular 5, ReactJS, jQuery,J2EE,NodeJS, GIT, Hibernate, Struts, JSON,RESTFUL, Microservices, JPA,MEAN Stack, WCAG2.0, 2.1

Capital One, Richmond, VA   **Jan 2018 – May 2019**
Sr Full Stack Developer

Description: The company provides retail and commercial banking, securities brokerage, mortgage and insurance products and services. This is an Online Web Portal used by customers register, Sign-on to access account history, transfers, profile management and perform transactions. The application is Online Banking System is a Web based application, based on MVC architecture.

Responsibilities:
- Analysed requirements with the business team, and involved in design, development and testing of the application.
- Used **J2EE**, **REST**, and **Spring** Framework for developing the application. Implemented the persistence layer using Hibernate and configured Hibernate with spring to interact with the Cassandra Database from the **DAO**.
- Strong Experience on Virtualization, Cloud Computing and **Web Services**. Performed Configuration, deployment and support of cloud services including Amazon Web Services (**AWS**),
- Open stack and VMware.
- Used **Spring Rabbit-MQ** in cluster as messaging system between the APIs and Micro services.
- Strong Experience in Deploying, managing and operating scalable, highly available, and fault tolerant systems in different Cloud providers.
- Implemented **Spring AOP** for basic authentication at API Level, which it reduces the development time to handle the exceptions.3
- Extensive Experience with **VMware**, **AWS** API'S while developing the User Story's.
- Developed Spring REST web services to serve multiple applications across the organization. The data is provided in Json and used Jackson library. Also, consumed REST web services.
- Good Experience in writing various **SHELL** Scripts to run on top of a virtual Box in various Providers.
- Implemented Microservices architecture using Spring Boot for making application smaller and independent.

- Involved in J2EE Design Patterns such as Data Transfer Object (DTO), DAO, Value Object and Template.
- Worked on GIT as a version controlling tool for managing the module development.
- Build servers using **AWS** which includes importing necessary volumes, launching the EC2 instance, creating security groups, auto-scaling, load balancers, Route 53 and SNS as per the architecture.
- Created multiple **Kubernetes** Clusters in **AWS** and deploying a **Docker Image** on top of Kubernetes Cluster for testing purpose.
- Used **JBoss Fuse ESB** to create mediation and route message between Services
- Integrated Kafka source to read the payment confirmation messages
- Used Apache Kafka (Message Queues) for reliable and asynchronous exchange of important information between multiple business applications.
- Created Amazon Machine Images (**AMI's**) of EC2 Instance for snapshots and creating clone's instances for their application elsewhere
- Implemented Automated Microservices development framework to improve fast development and easy Onboarding process.
- Responsible for installing **JBoss**, administering and support of staging, QA and Production environment and performed failover test. Deployed application in **JBoss** on **UNIX**.
- Developed **Apache Camel** middleware routes, **JMS** endpoints, Spring service endpoints and used **Camel** free marker to customize **REST** responses.
- Good experience of AWS Elastic Block Storage (**EBS**), different volume types and use of various types of EBS volumes based on requirement.
- Configured **Kafka** to read and write messages from external programs.
- Configured **Kafka** to handle real time data.
- Developed end to end data processing pipelines that begin with receiving data using distributed messaging systems **Kafka** through persistence of data into **HBase**.
- Have involved in migrated Application from **Java 1.7 to Java 1.8**.
- Implemented **react JS** code to handle cross browser compatibility issues in Mozella, IE 7, 8, 9, Safari and FF.
- Used React-Router to turn application into **Single Page Application.**
- Used Apache **Maven** build tool to automate the build process and **Jenkins** CI for continuous integration.
- Designed and developed Restful API and services using best practices to interact within the microservices and with the front end using Spring MVC and Spring Rest. Security is provided via tokens(jwt) and Spring Security
- Provided solutions to improve performance on multi-threaded processes and controlling the load on downstream **API** calls. After which there were no hung threads found in the application server logs.
- Supported QA testing to ensure the validation of the user stories as per acceptance criteria for the iteration.
- Design, develop and test HTML, CSS, jQuery and that meets accessibility using next generation technologies **Angular JS, Express, Node JS and Mongo DB.**
- Experience in writing tests using **Jasmine**, **Enzyme** and **Karma** and also performed automation using task runners.
- Used **Jest** and **Enzyme** for mocking functions and writing unit tests.
- Implemented the search functionality for Internal Application using **Angular 5, Postgresql and Node JS** .
- Modified and refactored the **SOA composites** as per the changing business requirements.
- Troubleshot and resolved issues pertaining to throttling of messages within the **SOA Composites**.
- Resolved issues relating to XML Transformations via BPEL using **JDeveloper** and **Oracle SOA Suite**.
- Implemented Struts framework in the presentation tier for all the essential control flow, business level validations and for communicating with the business layer.
- Designed data formatted web applications using HTML5 and CSS3 and deploy the script by client side scripting using JavaScript.
- Designed and implemented the logging mechanism using SVN as a version control tool and Ant for building and deploying the application.
- Developed the application using SCRUM methodology, we have scrum meeting once in every two where we would demo all the user stories done during that iteration for final feedback from end users.
- Provide production support and address issues that may occur in production and Involved on build and deployment process.

Environment: Java1.7 1.8, Spring, Jenkins, Maven, SVN, Rabbit MQ, Cassandra DB, Postgresql, HTML4/5, CSS2/3,JavaScript, jQuery, GIT, J2EE, JSON, Oracle Fusion Middleware 11g SOA suite, JBoss Fuse, Struts, SOAP, Apache Kafka, Mongo DB, Enzyme 3.0, RESTFUL Micro services, Hibernate, AWS, Kubernetes, NOSQL, Microservices, Angular 5, ReactJS, Docker, Apache Camel, VMware

Royal Bank of Canada, New York, NY   **Mar 2016 – Dec 2017**
Java Full Stack Developer

Description: Web monitoring system is a product for monitoring the web sites. It provides the user with valuable data regarding the series of requests made at the website. The product also analyses the data and identifies the bottlenecks involved in the request/response process of the monitored web sites. Web Monitor consists of a set of distributed components, which collaborates with each other, to monitor a web site.

Responsibilities

- Involved in various phases of Software Development Life Cycle (SDLC) such as requirements gathering, modelling, analysis, design, development and testing
- Designed User Interface using **HTML, XHTML, CSS/CSS3, jQuery, JavaScript, AJAX, JSP** and **AngularJS** and **XML** in a responsive grid layout. Implemented responsive design template to get a new interface in **Bootstrap, HTML5.**
- Developed the view-controller components using **Servlets/JSPs, JavaScript, jQuery, CSS, HTML and DHTML**
- Implemented routing logic and navigation from screen to screen and implemented login functionality on the client side in **AngularJS**.
- Used various features in **AngularJS** like data binding, routing, custom filters, custom directives to meet various customized requirements
- AngularJS **Ajax** module is used to handle **RESTful** calls to enable communication between view components and server.
- Developed the application Involved in multi-tier J2EE design utilizing **Spring MVC**, **Jakarta Struts Framework**, **Spring AOP, Spring Security, Spring Boot, Spring Batch and Spring ORM frameworks**
- Involved developing code for obtaining bean references in spring framework using Dependency Injection (DI) or Inversion of Control (IOC) using annotations
- System built using Spring Model-View-Controller (MVC) architecture. Implemented the application using the concrete principles laid down by several design patterns such as DTO, Intercepting Filters, Singleton and Data Access Object (DAO)
- Primary focused on the spring components such as Dispatcher Servlets, Controllers, Model and View Objects, View Resolver. Designed various types of controllers needed for services, utilities, helpers and other classes and packages including business logic handlers
- Involved in Writing Object Relation Mapping implementation using hibernate and hibernate mapping and used Hibernate for mapping an object-oriented domain model to a traditional relational database.
- Improved Insecure Direct Object References by mitigating the exposure of reference to an internal implementation object.
- Created various MongoDB collections and wrote services to store and retrieve user data from for the application on devices and used Mongoose API in order to access the MongoDB from NodeJS.
- Created Collections and documents and performed **CRUD operations with Mongo repositories** and developed ORM mappings using Hibernate and wrote Criteria, Named and HQL queries for data retrievals in the DAO layer
- Utilized **Amazon Web Services (AWS) EC2** to deploy Docker containers with both monolith and Microservice Architecture
- Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
- Deployed AWS Lambda code from Amazon S3 buckets.
- Created and Configure Microservices architecture for CDT Directory project and integrated with AngularJS application
- Provided events notifications and messaging capabilities using AWS' SNS and SQS.
- Developed components of web services (**JAX-WS, REST, JAX-RPC, Apache CXF**) end to end, using different JAX-WS standards with clear understanding on **WSDL** (type, message, port Type, bindings, and service), **SOAP** using various message exchange patterns
- Developed **XML Web Services** for data transfer from client to server and vice versa using Apache Axis SOAP, WSDL, and UDDI and tested the web services with SOAP UI
- Involved in implementing the Micro Services based on **Restful API** utilizing Spring Boot with Spring MVC
- Used XML translation on Web Service output using XSLT to generate XML document compatible with the application's schema
- Worked on migration of existing Java applications to cloud platform like Blue Mix
- Using Spring security framework for user level authentication with REST API for Service Layer Development
- Expertise on entire Intranet and Internet applications using Web and Application servers like **TOMCAT** and **WEBSPHERE**

- Experience with **Postgresql** document-based data stores like **Mongo DB** and have designed various data models for the system
- Used **Jenkins** to load JAR files from Database required for running the application
- Reduced Usage of Components with Known Vulnerabilities by reducing usage of components with known vulnerabilities which may undermine application defences
- Used JSON for data exchange between application modules along with XML
- Used **Maven** building tool for creating EAR file to be deployed in application servers. It is also used for dependency management of code in application.
- Performed regular tuning, troubleshooting, and debugging on the current business and Web interface applications using PowerBuilder
- Used **JIRA** to assign, track, report and audit the issues in the application and developed the pom.xml using Maven for compiling the dependencies.
- Focused on Test Driven Development; thereby creating detailed JUnit tests for every single piece of functionality before writing the functionality and worked on frameworks like **Mocha and JSLint**
- Used Git to maintain the version of the files and took the responsibility to do the code merges and creating new branch when new feature implementation starts.

Environment: Java1.8, J2EE, HTML5, CSS3, jQuery, Ajax. Bootstrap, JavaScript, AngularJS, Hibernate, Spring MVC, Spring IOC, Spring boot, spring security, OAuth 2.0, XML, GIT, JSP, JUnit, Maven, Apache AXIS, JAX-WS, Restful, Amazon Web Services (AWS), Microservices, Jenkins, Log4J, Oracle 10g, Postgresql, Mongo DB, WSDL, JIRA and Spring Tool Suite.

Zen3 Info Solutions (A Tech Mahindra Company), Hyderabad, India   **Aug 2013 – Aug 2014**
Data Analyst

Responsibilities:
- Technical responsibilities included high level architecture and rapid development
- Created data modeling standards and procedures.
- Presented data models to business teams for review.
- Performed detailed data validation spanning several different international projects.
- Worked with complex datasets and trained new hires to work with them as well.
- Performed in-depth data validation on data from various suppliers across the world.
- Served as the primary contact for client service teams for several different projects.
- Researched and resolved data discrepancies with troubleshooting teams.
- Merged data with existing data sets, careful to keep old data sets and documentation.
- Eliminating damaged data, fixing coding difficulties, and other problems.
- Creating and managing databases and data systems involves reorganizing data into a format that is readable.
- Evaluating data to establish its value and quality.
- Examine reports and performance metrics to spot and fix coding errors.
- Using statistical tools to identify, analyse, and interpret patterns and trends in large data sets that could aid in diagnosis and prediction.
- Assigning numerical values to essential business functions in order to assess and compare business performance over time.
- Analyzing trends at the local, national, and global levels that affect both the organization and the industry.
- Creating reports for management that include trends, patterns, and predictions based on relevant data.

Education:
Bachelors in Electrical and Electronics Engineering from JNTUH in 2013.
Masters in Computer Science and Information Systems from University of Michigan-Flint in 2015.