**Sai Arvind**

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I am excited to share my professional experience, explore my technical skills, get to know bit more about me. It is my firm belief that a good challenge is a great way to develop and improve, which is why I make a point of seeking out challenges in the professional realm as well as in my personal life.

**Professional Summary:**

* Extensively worked as IT Professional with overall 8+ years of inspiring experience in design, development and maintenance of distributed web-based applications and client/server applications using **Java/J2EE** and Web Technologies.
* Expertise on advanced software development methodologies such **as Agile/Scrum, Waterfall, Test Driven Development (TTD), Incremental and Iteration methodology.**
* Experience in Use Cases, Sequence Diagrams and Class Diagrams using UML and J2EE Design Patterns like **Model-View-Controller (MVC)**, Singleton, Abstract Factory, Session Façade, DAO, DTO, Service Locator and Business Delegate in developing multi-tier distributed web applications.
* Expertise in J2EE Architecture using **Java**, **JDBC, EJB, Servlets, JMS, JSP, Hibernate, Struts, Maven, Spring, Web services** (Axis, JAX WS, JAX RS) and **Rule Engines** (Drools, Easy Rules, Rulebook).
* Strong experience in Spring Framework modules such as **Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Dashboard, Spring Boot, Spring Micro services, Spring REST.**
* Hands on experience on using **Hibernate** for mapping the Java classes with database and using **Criteria API** and **HQL**.
* Experience in Messaging services like **(JMS) MQ's Apache Kafka, Rabbit MQ, IBM MQ** and Active MQ.
* Extensive knowledge and hands on experience in Web development using **HTML5**, **DHTML**, **AJAX**, **CSS**, **JavaScript,** **jQuery**, **Bootstrap**, **Angular**,and **Angular Material.**
* Designed **client-side validations** using **AngularJS** custom form validations that leverages various angular directives and integrated AngularJS filters to format data for searching, ordering and conditional iterating.
* Developed pages using **Angular directives, expression and routing capabilities** for **bookmarking filters, validations** and **Angular UI** components such as grid, carousals, button, date pickers etc.
* Experience in working with Angular modules, services, templates, directives, services, and dependency injection to create a **SPA**.
* Experience in making **Responsive Web Pages** using **Media Queries** and **Bootstrap**, Material Design lite for styling mobile applications
* Extensive experience in working with different databases such as **Oracle, IBM DB2, SQL Server, MySQL** and advanced expertise in writing complex **SQL, PL/SQL** queries and subqueries like stored procedures, joins, functions, triggers, views and exception handling for retrieving, manipulating, checking and migrating complex data sets.
* Expertise in **back-end procedure development** using **Sybase, PostgreSQL**, **Oracle,** and **MySQL**.
* Experience working with **NoSQL** Databases like **Mongo DB, Cassandra**.
* Good knowledge in employing database caching strategies using **Redis, MongoDB Elastic search**.
* Hands on experience in installing, configuring, and using **Hadoop ecosystem components** like **Hadoop Map Reduce**, **HDFS**, **HBase**, **Hive**, **Sqoop**, **Falcon**, **Storm**, **Kafka**, **Zookeeper**
* Expertise in developing applications using Type safe technologies like **Scala**, **Play** framework.
* Experienced in configuration and deployment on **Application Servers** such as **IBM WebSphere**,
* **Oracle WebLogic**, **Red Hat, JBoss, JWS, WAS, JVM** and **Apache Tomcat**.
* Moderately worked on **Jenkins** by installing, configuring, and maintaining for **continuous integration** (CI).
* Worked configuring Amazon **EC2, S3, RDS, Lambda, EBS, SNS** and different administrations in the AWS family.
* Developed a **Continuous Delivery pipeline** with **Docker, GitHub, and AWS AMI’s**.
* Hands on experience with **build tools** like **Ant**, **Maven**, **Gradle**.
* Used **Docker** container for eliminating a source of friction between development and operations.
* Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker Containers in local machines for smoke tests**.
* Used **AWS CloudWatch** to monitor application resources such as **ECS, EKS,** **EC2**, **RDS, Dynamo DB** tables and to set **alarms** for notifications and to monitor logs of the operation of the system.
* Hands on experience on **Terraform**, open source tool used for building and managing the application code.
* Excellent working experience on **Automating Web Application Testing** using **Selenium WebDriver** with **TestNG Framework**.
* Experience in **Data Driven Testing, Cross Browser Testing, and Parallel Test Execution** using **Selenium WebDriver, TestNG,** and **Selenium Grid**.
* Experience in all Phases of usability testing including user profiles and personals, task analysis, contextual research, test moderation, and reporting using **Jasmine**.
* Hands on experience on using **TestNG, Junit, Mockito, Eclipse** for building, logging, testing, Visual Source Safe, CVS, and SVN, GIT for version control.

**TECHNICAL SUMMARY:**

**Programming Languages :** Core Java, J2EE, C, C++, PL/SQL, Python, Scala, Shell scripting.

**Java/J2EE Technologies :** Servlets, JSP, JSTL, JDBC, JMS, JNDI, RMI, EJB, JFC/Swing, AWT,

Applets, Multi-threading, Java Networking, STRUTS, JSF, NoSQL, Ext.JS.

**Cloud Technologies :** AWS

**Web Technologies :** HTML5, CSS3, XHTML, JavaScript(+ES6), TypeScript, Ajax, jQuery, AngularJS, Angular, ReactJS, NodeJS, Socket.io, Swagger UI, Bootstrap, Google Web Toolkit (GWT), KnockoutJS.

**Frameworks :** Hibernate, Spring.

**Messaging Technologies :** JMS, Kafka, RabbitMQ, AWS-SQS.

**Application/Web Servers :** IBM WebSphere, BEA Web Logic, Apache Tomcat, JBOSS, Web Socket, Ngnix.

**Databases :** Oracle 8i/9i/10g/11g, Postgres SQL, Mongo DB, SQL Server.

**PROFESSIONAL EXPERIENCE:**

**Bank of America, Charlotte, NC SEP’19 – Till Date**

**Sr. Java/J2EE Full Stack Developer**

**Responsibilities:**

* Involved in the analysis, design, and development phases of the **Software Development Life Cycle** (SDLC) using **Agile (SCRUM**) development methodology to deliver regular updates to business team and project managers.
* **Developed UI pages using HTML5, AngularJS, Bootstrap, CSS3, JavaScript, jQuery, AJAX and Nodes.**
* Build the reusable service components with **AngularJS, Bootstrap,** and **JSX** that are used across various modules.
* Used Selectors, Events, AJAX and Dom Manipulation components in **Angular directives, filters, services.**
* Worked using NodeJS for doing non-blocking design operation for server-side code.
* Built REST by building **Nodes** in the back end to handle requests sent from the query Ajax calls.
* Implemented **jQuery** to develop the widgets and to perform the client-side validations, UI centric **Ajax behavior**.
* Experience on **Executor Service multithreading** to implement **Thread pool, parallel processing** to run processes asynchronously using future calls to access the data.
* Developed using new features of **Java annotations**, **Generics**, enhanced for loop and Enemas.
* Used advanced java 8 features like **Lambda expressions** for array operations, **Streams, Method reference, collections**. Enhanced concurrency methods etc. throughout the application for well-defined programming.
* **Implemented design patterns like MVC, Singleton, Business Delegate, Factory, and Service Locator.**
* Developed Restful web services using **Spring MVC REST framework** and **JAX-RS**.
* Used **Spring MVC Rest Controllers**, Services along with Dependency Injection, **Spring JMS,** and **Spring Security**.
* Experience on **Spring Framework AOP Module** to implement **logging** in the application to know the application status.
* Used Annotations for **Spring DI**, **Auto wiring** and Spring MVC for REST API s and **Spring Boot** for **Micro services**.
* Implementing or exposing the **Micro service** architecture with **Spring Boot** based services interacting through a combination of **REST** and **Apache Kafka** message brokers.
* Experienced in logging with **ELK Stack** by using **Elastic search, Log stash,** and **Kibana**.
* **Using Swagger UI registered micro services, monitored service health check from Spring Boot admin console.**
* Experience on **Oauth 2.0** authentication protocol respectively for **security** and **authorization**.
* **Experienced circuit breaker patterns and fail safe in Spring Boot Micro Service applications using Hysteria and monitored the services using Hysteria Dashboard.**
* Experience in performance tuning with **Oracle database**. Designed and developed file upload and file download features with **Oracle BLOB and CLOB.**
* **Experienced HQL, Named Parameters, Named Queries and Interfaces such as Expression, Query and Criteria for implementation of Hibernate template and extensively used Hibernate Cache.**
* Wrote SQL **queries, stored procedures, triggers, views, and** enhanced performance with explain plans.
* **Developed DAO layer using Cassandra and** expertise in **CQL (Cassandra Query Language)**, for retrieving the data present in Cassandra cluster by running queries in **CQL**.
* Deployed Spring Boot based micro services into **Docker container** using **Amazon EC2** container services.
* Developed API gateway for invoking **AWS Lambda** to manage the servers and alerts in the **AWS.**
* Used **AWS Cloud watch** in alerting, maintaining and monitoring of production and corporate servers/storage.
* **Experience with building Docker Images and running them on Docker container.**
* Designed and configured management reports and dashboards using **Kibana**.
* Worked on Test automation framework using **Selenium** web driver.
* Familiar with **Cucumber, Selenium Web Driver, Selenium** commands and **X-path** and developed **grunt** tasks to run the unit tests on **Jenkins** and Used **JIRA** to assign, track, report and audit the issues in the application. Head less browser, perfecto, gatling.
* **Worked with several testing frameworks such as JUnit and Mockito**
* **Used Eclipse based Spring Tool Suite (STS) for development and debugging Spring Boot applications.**
* Configured and administered **Jenkins for CI/CD** into **Tomcat** Application Server.
* **Environment:** Java 8/J2EE, Spring, Spring Boot, Spring Data JPA, Hibernate JPA, XML, Microservices, Angular, XML, Java Beans, Hystrix Dashboard, Tomcat, Oracle 11g, JavaScript, REST, Kafka, AWS IAM, Agile Methodology, Spring Eureka, JIRA, Git, Maven, Jenkins, Mockito.

**TIAA, Hartford, CT Feb 2020-July2021**

**Full Stack Developer**

**Responsibilities:**

* Defined and constructed layers, server-side objects and client-side interfaces based on **J2EE** design patterns, Developed, and implemented **Swing, spring and J2EE based MVC (Model-View-Controller) framework for the application.**
* Designed Prototype and project layout skeletons using **ReactJS, jQuery and CSS/LESS and HTML5**.
* Involved in designing and developed presentation layer using **JSF, Ajax, and jQuery and third-party libraries.**
* Developed views and templates with **Python** and **Django's view controller** and templating language to create a user-friendly website interface.
* Wrote **Python** scripts to parse XML documents and load the data in database. Built main applications in **Python, Django** leveraging technologies such as **Tasty pie, Angular.js, Backbone.js**.
* Implemented the associated business **modules integration** using **spring** and **Hibernate data mapping.**
* Developed classes using **core java** (multithreading, concurrency, memory management) and some **spring** IOC.
* Used **spring dependency injection**, **annotations and Spring MVC components** to implement business layer and navigation part of application.
* Used **spring boot** Actuator to externalize application's configuration properties for various environments.
* Configured **Swagger-UI** registered **Micro service** with **Eureka server** to monitor service health check from **Spring Boot** admin console.
* Implemented pre-authentication and data base security using **spring security**. Used **Spring Security** to provide primitives for securing application access.
* Defined **Hibernate** Named Queries for Batch related operations while defined Criteria Queries for **Micro services**.
* **Micro services** have been built using **spring boot, spring security** and deployed to **AWS cloud**.
* Developed **CI/CD** system with **Jenkins** on **Kubernetes** container environment utilizing **Kubernetes**.
* Used **Spring Cloud AWS Core, Spring Cloud AWS Context**, and **Spring Cloud AWS Messaging**.
* **Struts Tag Libraries and Struts Tiles** Framework were used in addition to **JSP, HTML5, AJAX and CSS** in developing the presentation layer.
* Utilized **AWS Lambda** platform to upload data into **AWS S3** buckets and to trigger other Lambda functions **(Including EC2, MongoDB** focusing on high-availability, fault tolerance, and auto-scaling).
* Developed **several REST web services** which produces **both XML and JSON** to perform tasks, leveraged by both web and mobile applications. **RESTful web services** using Jersey for JAX-RS implementation.
* Worked on **Rest Web services** as well as **Node Rest framework** for backend services, used **Mongo DB (NoSQL)** for database services.
* Worked on **Drools Rule Engines** with corresponding to validate the business User Roles.
* Used various **jQuery** and **Bootstrap** plug-in like **date picker, Bootstrap** selectors.
* Exposed and consumed **SOAP** based **Web Services** to communicate between systems. GUI design and development using **Java Swing, JFC** Used for open source web testing.
* Developed several **SOAP based JAX-WS** **Web Service** interfaces for integrating multiple systems, code re-usability. Used **JMeter** to test performance of SOAP protocol.
* Heavily used **SOAP UI** Pro version for testing the Web Services.
* **JBoss** Application server implementation, support, workload management and **performance tuning** including Web servers. Setup configuration with **JBoss** App Server.
* Wrote **SQL queries, stored procedures** and enhanced performance by running explain plans. Developed the data access classes using **JDBC** and **SQL** queries.
* Database development required creation of new tables, **PL/SQL stored procedures, functions, views, indexes** and **constraints, triggers** and required SQL tuning to reduce the response time in the application.
* Involved in data loading **using PL/SQL** and **SQL\*Loader** calling UNIX scripts to download and manipulate files.
* Created and configured new **JIRA** projects and worked with departments to maintain existing **JIRA** projects.
* Used **log4j** for logging and **GIT** for version control.
* Used **JavaScript, jQuery** for user interactions in pages. Creating a responsive web application integrating Twitter Bootstrap with **Angular JS** and media queries.
* Used XStream API to transfer data back and forth between **Spring MVC and Ext JS.**
* Custom **Node.js** proxy used to simulate API responses before client implementation was complete, and to proxy requests to finished client APIs, handling authentication, custom headers, virtual application root, etc.
* Developed Unit test cases using **JUnit, Mockito and Easy mock.**
* Developed **Maven scripts** and developed builds using **Maven** and continuous integration servers like **Jenkins**.
* Written highly referenced blog posts on [**Error Handling in Scala**](http://tersesystems.com/2012/12/27/error-handling-in-scala)**and**[**Problems Scala Fixes**](http://tersesystems.com/2012/12/16/problems-scala-fixes).
* Configured the Web sphere application server to connect with Oracle Server in the back end by creating JDBC data source and configured MQ Series and **JMS Queues** with IBM **RAD** and **WAS** to create new connection factories and queues.

**Environment:** Java, J2EE,JDK, RCP, WebLogic, AWS SDK, Ext JS,  Git, Swing, JFC, PL/SQL,  Spring,  AWS SNS/SQS, Hibernate, Core Java, SOAP/Rest, Web Services, JavaScript, UML, Web Services, HTML5, CSS, SASS, RAD,WAS 8 WSDL, JIRA, JAXB, Linux, JAX-WS,JAX RPC, JMS, JSF,UNIX, AKKA, NOSQL(MongoDB), Cassandra, Angular JS, NodeJS, BackboneJS, Scala IDE, JBoss 3.0, ReactJS, AJAX, Apache JMeter, GWT, Drools, jQuery, JUnit, Maven, Oracle 10g.

**TD Bank, Bronx, NY Nov’2017 – Jan’2020**

**Java/UI Developer**

**Responsibilities:**

* Developed the **J2EE** application based on the **Service Oriented Architecture (SOA).**
* Client-Side code were written in **ReactJS, jQuery and Server-Side Code** were developed using **MVC4.**
* Developed Web Services **SOAP/HTTP**, **SOAP/JMS, and SMTP** using **SOA** technologies such as **SOAP, WSDL and UDDI.**
* Extensive use of **core Java Collections, Generics, Exception Handling, and Design Patterns for functionality**, such as portfolio summary and user information.
* Designed Interactive GUIs using **Java Applets and Swing/JCF**.
* Integrate the **Ext JS** framework with Oracle BPM. Developed web-based applications using Python, CSS and HTML.
* Developed monitoring and notification tools using Python. Wrote Python routines to log into the websites and fetch data for selected options.
* Wrote **SQL** **queries, stored procedures** and enhanced performance by running explain plans.
* Developed the functionalities under **Agile Methodology JIRA** processes**.**
* Experienced in build, deploy multi module applications using Maven, ANT and CI servers like **Jenkins**.
* Worked in all the modules of the application which involved front-end presentation logic developed using **Tiles with Spring MVC**, **JSP**, **JSTL** and **java script**, Business objects developed using POJOs and data access layer using **Hibernate** framework.
* Have been working on **Query optimization, functions and Stored Procedures** **and other database objects. Worked on Oracle9i/10g, My Sql.**
* Involved in writing **Thread** Safe blocks for **multithread** access to make valid transactions.
* Enhanced user experience by designing new web features using MVC Framework like **BackboneJS** accommodate these advanced and fast technologies.
* Responsible for the implementation of application system with **Core Java** and **spring** framework.
* Created and injected **spring** **services**, **spring** **controllers** and DAOs to achieve **dependency injection** and to wire objects of business classes.
* Designed and Implemented **REST** web services using **JAX-RS, Spring REST**.
* Worked with **Swing** and **RCP** using Oracle ADF to develop a search application which is a migration project.
* Used **Hibernate** **Transaction Management, Hibernate** **Batch Transactions, and Hibernate** **cache concepts.**
* Developed screens using **JSP, JavaScript, AJAX and Ext JS.**
* Database development required creation of new tables, **PL/SQL** stored procedures, functions, views, indexes and constraints, triggers and required **SQL tuning** to reduce the response time in the application.
* Focused on **Test Driven Development (TDD)** thereby creating detailed **JUnit** tests for every single piece of functionality before writing the functionality.
* Experience in **NoSQL (MongoDB)** in using Hierarchy Modelling Techniques like Tree Aggregation, Adjacency Lists and materialized paths.
* Integrated the Java code (API) in **JSP** pages and responsible for setting up **AngularJS framework for UI development.** Developed **HTML** views with **HTML5, CSS3/Sass, bootstrap, NodeJS, and AngularJS.**
* Configured the Web sphere application server to connect with **DB2, Oracle and SQL** Server in the back end by creating JDBC data source and configured **MQ Series with IBM RAD and WAS** to create new connection factories and queues
* Used **Apache Maven** for project management and building the application. CVS was used for project management and version management.
* **Environment:** J2EE, Java, Swing, JFC, Spring framework, JMeter, Git, Scala, Spring MVC, JSP, Eclipse RCP plug-in/ SWT , JSF, Servlets, Hibernate, AJAX, Core Java, Web services , SOAP, XML, Java Beans, XStream, Apache POI, Ext JS, Angular JS, Linux, NodeJS, ReactJS, BackboneJS, jQuery, Python JavaScript, Oracle 10g, IBM RAD, WebSphere 7.0

**Cito InfoTech, India Aug’2014 – Oct’2017**

**Java Developer**

**Responsibilities:**

* Performed the analysis, design, and implementation of software applications using **Java**, **J2EE**.
* Implemented design patterns like **Data Access Objects** (DAO), Value **Objects/Data Transfer Objects** (DTO), and Singleton etc. Developed JavaScript validations on order submission forms.
* Worked with core java concepts such as OOPs, Multi-threading, collection framework and Exception handling.
* Developed and implemented **spring** and **J2EE based MVC** (Model-View-Controller) framework for the application.
* Coded Modules in **Java, HTML, JSTL, JavaScript, CSS, JSP** and **Servlets**. Created dynamic HTML pages, used **JavaScript** for client-side validations, and **AJAX** to create interactive front-end GUI.
* Performed in different phases of the **Software Development Lifecycle** (SDLC) of the application, including requirements gathering, analysis, design, development, and deployment of the application.
* Developed Action Forms and Controllers in **Struts 2.0** framework.
* Designed, developed, and maintained the data layer using **Hibernate**.
* **JUnit** was used to do the Unit testing for the application.
* Used various Core Java concepts such as **Multi-Threading, Exception Handling, Collection APIs** to implement various features and enhancements.
* Used **Apache** **Ant** to compile java classes and package into jar archive. Wrote **PL/SQL** queries, stored procedures, and triggers to perform back-end database operations.
* Involved in coding, maintaining, and administering **Servlets,** and **JSP** components to be deployed on a Web Sphere Application server.
* Involved in tracking and resolving defects, which arise in QA & production.

**Environment:** Java, J2EE, SOA services, JPA, JSP, Agile/Scrum, Eclipse, HTML, DHTML, XML, JavaScript, AJAX, WebLogic, ANT, Apache Axis, WSDL (Restful), SOAP, XML, LDAP, TCP/IP, JavaScript, OSS, Clear Case, XSLT, CSS, JMS, Oracle 10g, Spring, SQL, Pl/SQL.