**SINDHU K**

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**Professional Summary**

Skilled IT professional with **6 years of experience** with a strong expertise in all phases of **Software Development Life Cycle (SDLC).** Covering all key aspects including **Requirement Analysis,** Design, Implementation and Testing in Web and Enterprise applications with a prominence on **Object Oriented Programming**, **Java/J2EE** and Client Server technologies .Designing and experienced in developing multi-tier enterprise applications using Java & related technologies such as **Servlets, Spring, JDBC, Spring Boot Hibernate, XML, JSP and Web services.**

* Expertise in **Java/J2EE** development using Java, JSP, Spring Web Services, Spring **JDBC** framework, **Ajax, XML** and **Web Services** with standard design patterns.
* Expertise in Front End Web technologies like HTML, CSS, Java Script, **AngularJS, JQUERY, AJAX, Bootstrap.js**to achieve design flow and developing dynamic web pages.
* Developing applications with expertise using **jQuery, React.js** for view rendering and implementing React JS with Redux patterns to attain MVC functionality.
* Frequently used Angular 2 router, **React.js** and Redux in building **single page applications (SPA)** to navigate through the different components.
* Expertise in Spring framework, extensively used **Spring DI**, **Spring AOP**, **Spring JDBC** templates and **Spring MVC**.
* Experience in all testing stages including **Functional**, **Performance**, **Integration**, **Regression** and **User Acceptance** testings.
* Designed, architected and wrote the front-end of e-Commerce application using **React**.**js**. Achieved a **Lighthouse score** of 100/100 on our frontend.
* Extensive use of many Core Java features like Streams, Concurrency and Filters API, **Multi-Threading** and **Functional Interface** programming.
* Implemented **Micro Service Architecture** using **Spring Boot** and **Spring REST** to create endpoints and integrated **Swagger Spring Boot** to get dynamic documentation.
* Exceptional handling and Implementation in Java **Spring Boot** for **REST API** by making use of Exceptional Handler and Controller Advice annotations.
* Extensive experience in developing scalable, reliable, efficient web and enterprise applications using **JSP**, **Servlets**.
* Operational Experience in developing web applications by using Spring framework modules such as **Spring AOP, Spring MVC, Spring Boot.**
* Proficient in using **Spring Data JPA** that helped in creating automatic Data Access Objects at the compile time.
* Expertise in developing web applications based on micro services based architecture and deployed on **Google Cloud Platform**.
* Worked on **Apache kafka** to publish and subscribe to streams of records.
* Expertise in developing data models using the **Hibernate** Object relational mapping (**ORM**) framework and using **Hibernate Annotations** to reduce time at the configuration level.
* Knowledge and hands on experience in essential front-end technologies like **HTML5, CSS3, Java Script**. Knowledge on third-party libraries like **jQuery, Angular and React JS**
* Knowledge on foremost Database Management system technologies such as **MySQL, MongoDB, Oracle, SQLServer,DB2,Couch DB.**
* Worked on **JMS** to provide communication between software components or different applications.
* Worked on **Jenkins** to implement Continuous Integration and deployment into **Tomcat** /**Web** **Logic Application.**
* Worked on **Docker** deploy, and ran applications by using containers.
* Used **GitHub** for version control,configured **Maven** for dependencies and **Log4J** for logging.
* Knowledge of **Git** and changes or updates to get the latest code and making changes or update parts of code.
* A highly confident and **self-motivated** and data-driven professional with good **analytical** thinking, outstanding communication and **interpersonal** skills to develop a positive working relationship with clients and a reliant team player.

**Technical Skills:**

* **Programming Languages:** Java, HTML, CSS, JavaScript, C++, C
* **J2EE Technologies:** Servlets, AJX, JSP, JSTL, JDBC, JMS, JSON, Spring JDBC, RESTful Web Services, SOAP
* **Web Frameworks:** Bootstrap, React.js, Node.js, NPM, Express.js, Angular, Spring Boot, Spring MVC, jQuery
* **Web/Application Servers:** Apache Tomcat 8, Glassfish 4, IBM WebSphere
* **ORM Frameworks:** Spring Data, Hibernate, JPA, Jersey
* **Build Tools/Containers:** Maven, Jenkins, Docker
* **Databases:** MySQL, Oracle, SQL-Server, PostgreSQL, DB2,Couch DB, MongoDB, Cassandra (No-SQL)
* **Testing/Logging Tools:** Junit, Log4j
* **Messaging systems**:Apache kafka,Jms
* **Design Patterns:** OOPS, MVC
* **Version Control Systems:** Git, Bitbucket, SVN
* **IDEs:** Eclipse, IntelliJ IDEA, NetBeans, Visual Studio Code
* **Operating Systems:** Windows, Linux (Ubuntu, CentOS)

**WORK EXPERIENCE**:

**Client:3M St. Louis, Missouri May 2019-Present**

 **Java Full Stack Developer -**

**Responsibilities:**

* Full stack application development implementing an **Agile** methodology in developing a Micro service Architecture employing **Spring Boot** and **Angular** to integrate modules and establish endpoints to communicate with the existing applications.
* Using Spring Boot to get a wide range of non-functional features and **Spring Rest** in creating **Rest** Producers and **Rest Clients**.
* Application developer for implementation of **MEAN** stack technologies like **Angular**  in the front end and **Node.js** in the back end.
* **AWS** Services utilized to upload data into **AWS S3 buckets**, created **EC2** instances and deployed dockerized container services.
* Employed **Spring Data JPA** as the **ORM framework** to connect with **MySQL** database and Cassandra data node to connect with Cassandra database. Also implemented
* **NoSQL** databases including MongoDB and Cassandra manage extremely large data sets.
* worked on Configuring **Kafka Consumer** and **Producer** metrics to visualize the Kafka System performance and monitoring on Server.
* For authentication of **RESTful** services, implemented **JWT** (JSON Web Tokens) for creating tokens to assert claims in the application.
* Used tools such as **Swagger** while exposing API's for better understanding of the **JSON** requests.
* Response to **HTTP** requests and responses from the user were done by configuring **Express.js** framework, utilizing its web and starter packs efficiently.
* Validated forms in HTML using built-in validation properties of **Angular**. Employed **Spring** cloud for discovery and service registration and configured Spring for centralized configuration and ribbon for client-side load balancing.
* Developed builds using **Maven** and pipelines like **Jenkins** with version control systems such as **GitHub.**
* Use of **Docker**, **Kubernetes** and **Open-Shift** to manage micro services for development of continuous integration and continuous delivery.
* Using **Eclipse IDE** developed the application and implemented the communication between the endpoints
* Deployed applications on **Google Cloud Platform** using kubernetes Engine and also numerous **google vision API**.
* Testing for Node.js is done for Spring Boot using **Mockito, JUnit, Mock MVC** and thereby achieving **Test Driven Development (TDD).**
* To have flexibility in tracking issues and communicating with other teams employed **JIRA** deploying modules in different environments.

**Environment**: Java,J2EE, HTML, CSS, JavaScript, Angular.js, Node.js, Express.js, Bootstrap, jQuery, JWT, Agile(SCRUM), Spring Boot, Spring Rest, Spring Data, JPA, MongoDB, Cassandra,Apache kafka ,Mockito, JUnit, Mock MVC, Spring Cloud, AWS Service (EC2, S3, EBS), GCP cloud,JIRA, Maven, Jenkins, GitHub.

**Client:ServiceMaster,Memphis,Tennessee August 2018-April 2019**

**Senior Java/J2EE Developer**

**Responsibilities:**

* Implemented **Agile SCRUM** methodology in design, analysis, and development and testing of various phases in the application development.
* Use of **RESTful** web services to provide access to all the **CRUD** capabilities to the user using **Spring Boot.**
* To develop and provide access to all the **CRUD** capabilities to the user using **Spring Boot, RESTful** web services was implemented.
* Implemented controllers, models and views to develop a **Spring Boot** application to provide leverage to the users to utilize the non-functional features.
* Developed Open stack API to Integrate with **Amazon EC2** cloud based architecture in AWS, including creating machine Images and worked on AWS, High Availability Practices and deploying backup/restore infrastructure.
* Experienced to integrate **JMS** with Spring Boot by providing an instance which is embedded using **AngularJS, JQUERY,AJAX, BootStrap.js** to achieve design flow and developing dynamic web pages.
* Consumed **SOAP** web services and RESTful **JSON** web services to create the automated report.
* Securing **REST** services using Spring Security and **OAUTH 2.0** framework and created documented REST services using Swagger.
* Using **Node.js** and **Express.js** reusability of the modules and a centralized logic implemented.
* Implemented complex directives, services, controllers and filters using **Node.js** framework.
* Designed both prototype and project layout skeletons using React with **Redux,** **jQuery UI** and **CSS/Less** and **HTML5** for internal administrative application services.
* Developed the front end of the application employing **React.js** and utilized the predefined components from Node Package Manager and **Redux** library to implement the same.
* Maintained the client-side application using **HTML5, CSS3(SASS), TypeScript, Bootstrap, JSON** and **Angular.**
* Extremely large data sets are managed using **NoSQL** databases like **MongoDB.**
* **Git** was used for project management and Version management.
* Implemented Source-tree for **Git** and **Jenkins**, **Docker** for building CI/CD pipeline and employed **Maven** as a build tool.
* Developed and deployed the application using **IntelliJ IDE.**

**Environment:** HTML, CSS, JavaScript, React.js, Angular.js, Node.js, Express.js, Bootstrap, Agile (SCRUM), Java, Spring Boot, Spring MVC, RESTful Web Services, SOAP, Apache Tomcat, MongoDB, PostgreSQL, AWS, Amazon EC2, Docker, GIT, Jenkins, Maven, IntelliJ.

**Client:DTE Energy ,Detroit July 2017-August 2018**

**Senior Java Developer –**

**Responsibilities:**

* Developed an application to implement **Agile** methodology where a **SCRUM** meeting is conducted every week to keep track of status of the project completion.
* Developed the **micro services** using **Spring Boot** to get a range of non-functional features and using **Spring Rest** to create rest producers and rest clients by using Spring Rest.
* Implemented **JSON** as a form of communication between front end and the middleware.
* **HTTP** services in **Node.js** are implemented to make **API** calls and exchange data in **JSON**.
* Designed both prototype and project layout skeletons using React with **Redux, jQuery UI** and **CSS/Less** and **HTML5** for internal administrative application services.
* Upgraded existing UI with **HTML/CSS3, jQuery, AJAX, Bootstrap** with **Node.js.**
* Using AWS stack, maintained and expanded **AWS** cloud services infrastructure.
* **SQL** queries embedded into the code using **JDBC** prepared statements.
* Proper creation of tables, triggers, procedures, SQL queries, integrity constraints and views in **Oracle Database**.
* Implemented **Hibernate** for data persistence and management.
* Using **GIT** as a version control system to log the changes that were being updated to the different versions of the module in addition to code merges from branch to trunk, created a new branch whenever a new feature implementation starts.
* Deployed the application using **IBM WebSphere Application Server.**
* Fixed numerous bugs that arose during development of applications across various modules of the product during **Integration testing**.
* To support Regression testing, developed and maintained automated test scripts and actively participated in System testing and **Regression** testing in UFT.
* Implemented Source-tree for **Jenkins**, **Docker** for building CI/CD pipeline and employed **Maven** as a build tool.
* Developed and deployed the application using **Eclipse IDE.**

**Environment:** HTML5, CSS3, JavaScript, Bootstrap, Agile (SCRUM), Node.js, React.js, AJAX, jQuery, XML, JSP, Agile (SCRUM), Spring Boot, Spring Rest, RESTful Web Services, Hibernate, IBM WebSphere, Linux, Oracle DB, GIT, JDBC, JUnit, Log4j, AWS, Eclipse.

**Client:Autozone Memphis,Tennessee July 2016-June 2017**

**Jr. Java Developer –**

**Responsibilities:**

* Designed the Back-end tables for this module. Communicate with business for obtaining requirements from the legacy system and Involved in understanding the scope of application, present schema, data model and defining relationship within and between groups of data
* **HTML5, CSS3, Bootstrap, JavaScript, JQuery** and **AngularJS** used in developing presentation layers.
* Designed and developed template-based User Interface using **Bootstrap** and **AngularJS.**
* **JQuery** was used in handling all the client-side validations, slide show, hide and show controls, dropdown menus and tab navigation.
* Utilized Spring Framework in developing and designing modules like **Spring IOC, Spring AOP** and handled security using **Spring Security Oauth.**
* Two wide modelsused **Spring MVC** model integration for front-end request action controller and **Spring AOP** for logging purposes.
* Used **Spring IOC** for dependency injection and developed controllers for handling HTTP requests and providing HTTP response.
* For data retrieval **REST** and **SOAP** based Web Services implemented to make it independent of the current application.
* Implemented Service Oriented Architecture by **SOAP** based Web Services with **JAX-WS and WSDL.**
* Worked on transferring and retrieving data between different on **XML, XSLT** and **JSON**.
* Established connection to Oracle database with **Spring** Integration, hibernate and created **POJOs** for mapping with the database tables.
* Experience in writing complex **PL/SQL** queries using joins, Stored Procedures, Functions, Triggers, cursors, and indexes in Data Access Layer.
* Developed test cases for Unit Testing, Integration Testing with **JUnit**.
* Worked on for logging errors, messages and performance logs using **Log4j**.
* Used **Maven** as a build automation tool and deployments are done on **jenkins**.
* Defined the Hibernate configuration file, hibernate mapping files and created classes to persist the data into **Oracle**.
* Development carried out under **STS Integrated Development Environment (IDE).**

**Environment**: Java, HTML, Bootstrap, AngularJS, JSP, DAOs, CSS, Java Scripts, PL/SQL, OOPS, JDBC APIs, SOAP.

**Client:Rytways Software Technologies,chennai June 2015- July 2016**

**Java Developer :**

**Responsibilities:**

* Developed user interactive web pages implementing Waterfall methodology utilizing **Angular.js, HTML, CSS, JavaScript, Bootstrap, JSON and Hibernate.**
* Developed server-side **RESTful** services and implemented those using Angular controllers.
* Setup classes, interfaces, access specifiers in addition to **Java Primitives**, Wrapper classes, memory management of the application and its garbage collection.
* Angular.js collects data from the backend and stores it using **HTTP protocols**, besides using security configurations for authentication and authorization populating on the front end user interface.
* Designed and developed single page applications using **Angular.js** implementing components.
* Implemented routes and directives establishing components using **Angular.js** for existing web pages.
* Populated the **Oracle** database with SQL queries to store and retrieve data from the database.
* Participated in code review and mentoring sessions and used **GIT** as version control and **GITBash** for **GIT** interactions.
* Deployed the application using **Docker.**
* Developed database **Triggers** to enforce security in addition to reference cursors.
* Employed **Karma and Jasmine** for testing the functioning of the project.

**Environment:** Java, HTML, CSS, JavaScript, Angular.js, jQuery, AJAX, JSON, JSP, XML, Spring Boot, Spring, Apache Tomcat, Hibernate, Oracle, Microservices, Docker, AWS.

**Client:DSSI Solutions,Chennai June 2014-May 2015**

**Software Developer –**

**Responsibilities:**

* Implemented the application utilizing **Waterfall** methodology, defined the **MVC ( Model View Controller)** architectural pattern for the design of the application.
* Establishing communication between the front end and the backend database by implementing **Servlets.**
* Utilization of **Apache Tomcat Server** to eliminate memory leaks in the product and also increase the efficiency and productivity of the application.
* Developed the application using **HTML, CSS, JavaScript, JSP, Servlets and JDBC**.
* For storing and retrieval of data from the database, utilized **JDBC** to connect to **MySQL** database and created **SQL** Queries.
* Utilized **GIT** as a version control system for any changes made to application throughout the development of the project.
* **Unit testing** and **Integration** testing performed using Junit.

**Environment:** HTML, CSS, JavaScript, JSP, Servlets, Apache Tomcat, JDBC, MySQL, JUnit, GIT.