**SNEHA THOUTAM**

**Java/J2EE Full Stack Developer**

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**PROFESSIONAL SUMMARY:**

* Overall 8+ years of professional IT experience in mi designing and developing Web based and Enterprise applications using **OOA, OOD, OOPS** and **JAVA/J2EE** technologies.
* Experience in working with various **SDLC methodologies** like Agile and Test-driven Development(TDD) methodologies.
* Good Knowledge of Java 8 Features including **Lambda expressions, Method references, Functional interfaces, Stream API, Default methods, Optional class, Collectors class, Parallel array sorting** etc.
* In depth knowledge on core java concepts such as **OOPS, Collections, Threading, Generics, Exception handling, Thread pools, Execution services, concurrent utilities, File IO and Serialization, JDBC.**
* Experienced in UI frame works such as **HTML5, CSS3, Bootstrap, jQuery, Ajax, Google Web Toolkit (GWT), JSON, JavaScript, JSP, NodeJS, ReactJs, BackboneJS, AngularJS/2/4, Tag Libraries, Custom Tags**.
* Expertise in design and development of various web and enterprise-level applications using Java/J2EE technologies such as **Spring, Hibernate, Servlets, Struts framework, EJB, SOAP and Rest web services.**
* Strong experience in Spring Framework modules such as **Spring MVC, IOC, AOP, JDBC, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul, Spring Security.**
* Responsible for **REST micro services** Integration with **Swagger** and **Spring Security**.
* Expertise to interact with relational databases using **ORM** frameworks like **Hibernate, Spring Data, JPA**, **IBatis**, **MyBatis, Java Persistence API (JPA),** Hibernates second level cache - **Ehcache.**
* Strong experience in configuration and management of SQL/No SQL like **Oracle, DB2, MySQL, SQL Server, PL/SQL** programming and No SQL Databases such as **MongoDB, Cassandra.**
* Worked with Angular CLI and **Typescript** in Angular 4.0 to create Controllers and Angular components mainly Custom components(for naming selector, events and event handlers and to extract template and styles , extracting logic and presenting logic) for the Web Pages.
* Monitoring and logging tools such as ELK Stack (Elasticsearch, Log stash, and Kibana).
* Expertise in configuring servers like **JBoss, IBM WebSphere, Oracle/BEA WebLogic, Apache Tomcat.**
* Hands on experience in **XML** related technologies **JAXP (SAX, DOM), JAXB** for parsing XML into Java object.
* Proficient in using **Amazon Web Services(AWS)**. Extensive experience focusing on services like **EC2, Virtual Private Cloud(VPC), Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, Elastic Cache.**
* Good experience on **SOA architecture** and web services **(SOAP, WSDL, UDDI)** using **Apache Axis2** and **RESTful** web services **(WADL)** in Java and consuming web services with **Python.**
* Experienced in handling message queues using **JMS, Zookeeper,** **Rabbit-MQ**, **Active-MQ** and **Apache Kafka**.
* Developed and deployed **Micro Services** based applications using **Spring Boot** and **Spring Cloud**.
* Knowledge of **Micro service**s **Design** patterns – **Circuit Breaker/Hystrix, DTD, Aggregator**
* Good experience in J2EE Testing in developing test cases with **Junit, Mockito** for Unit testing, and logging using **Log4j**, **TestNG, SOAP UI, JMeter, Protractor, Karma** and java-based integration testing and behavioral testing of the applications using **Selenium** and **Cucumber** respectively.
* Also worked on creation of **Docker** images, Containers, Push/Pull and on integration with **Spring Boot.**
* Implemented **Docker container service** and **Kubernetes** build pipe line **Jenkins**, **Bamboo** and **GoCD** for Continuous Integration and Continuous Deployment that can run on the cloud or on-premises.
* Experienced in Development, testing and deployment of enterprise applications on **Windows & UNIX** platforms using IDE's such as **Eclipse, Rational Application Developer (RAD),** **NetBeans, STS, Intellij.**
* Well experienced with build tools like **Gradle, Maven, Jenkins** and **ANT.**
* Expert in using version control tools such as such as **SVN, CSV and GIT.**
* Experience at working on **JIRA tools** for tracking stories in a project in a different methodology of SDLC.
* Ability to communicate effectively with all levels of the organization such as technical, management and customers and presented technical designs and strategies through daily operations meetings.

**TECHNICAL SKILLS:**

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| **Programming Languages** | **C, C++, Java 6/7/8, Java/J2EE, Scala, Python, Swing, JDBC, DTD, UML, Design**  **Patterns, Shell Scripts, HTML, PHP, JavaScript, Golang, SQL and PL/SQL.** |
| **Web Technologies** | **HTML5, CSS3, JavaScript, Typescript, AJAX, JSON, Bootstrap, jQuery, Angular 2.0/4.0,**  **ReactJS, With Flux, Redux, Ember JS, Back Bone JS, NodeJS, Express JS.** |
| **J2EE Technologies &**  **Frameworks** | **Servlets, EJB, JSP, JSF, JDBC, SOAP, REST, XML, JMS, Spring3.x/4.x/5.x,**  **Hibernate, Spring MVC, Spring Boot, Spring Data, Spring Batch, Spring Cloud.** |
| **Databases** | **Oracle, DB2, SQL Server, MYSQL, MongoDB, Raven DB, Cassandra.** |
| **Application/Web Server** | **Oracle Web logic, IBM Web Sphere, JBoss, Apache Tomcat** |
| **Messaging Services** | **JMS, Active MQ, Rabbit MQ, IBM MQ, Apache Kafka** |
| **Software Methodologies** | **Agile, Scrum, TDD, Waterfall** |
| **Testing Tools** | **Junit, TestNG, Mockito, Jasmine, Karma, Mocha, Chai, Spock, Protractor** |
| **Build Tools** | **Ant, Maven, Gradle, Jenkins, Webpack, Hudson** |
| **Version Control Tools** | **GIT, SVN, CVS** |
| **Project Management Tools** | **JIRA, Rally, Microsoft Project** |
| **Cloud Environments** | **AWS, Azure, Netflix, Eureka, Mesos, Kubernetes** |
| **Platforms** | **WINDOWS, MAC, MS-DOS, LINUX, UNIX** |
| **IDE’s** | **Eclipse, Visual Studio, Intellij, Spring Tool Suite, IBM WSAD, IBM RAD** |

**PROFESSIONAL EXPERIENCE:**

**Client: Centene, St Louis, MO Jan 2017 to Present**

**Role: Java/ J2EE Full Stack Developer**

**Description:** Centene is a national leader in the health service field, providing managed care programs and related services to individuals and families enrolled in government-assisted health programs. They provide services to more than 1 million low income, elderly and disabled people receiving Medicaid, Supplemental security income and other benefits. They also offer specialty services in areas such as behavioral health, disease management, optional benefits plan, nurse triage, and pharmacy benefits management.

**Responsibilities:**

* Actively involved in Analysis, Design, Development, System Testing and User Acceptance Testing. Successfully followed **agile methodology** in the Scrum Cycle model.
* Developed applications using **Java7** and new features of **Java 8** (**lambda expressions, Method references, etc**).
* Implemented **Multi-Threading** using **Executor Service** concept to pull data concurrently from multiple resources.
* Developed UI pages with **HTML5, CSS3, JavaScript,** used **Boot Strap** for creating Responsive Web pages.
* Experience with migrating from **Angular 2** to **Angular 4** by implementing routing, components, services and directives on the User Interface development.
* Implemented the techniques used in **Angular 2.0** with the help of Typescript.
* Involved in developing UI pages using $http in **Angular 2** for calling the Rest API's from Backend.
* Developed the application as Single Page Application (SPA) using Angular **Typescript module,** components, routers and Angular modules such **as Ng Module, Forms Module, HTTPClient Module**, and Browser Module, set up server side using Node.js.
* Creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch and developing **Docker** images to support Development, Testing Teams and their pipelines, distributed **Jenkins**, **Selenium** and **JMeter images**, and **Elasticsearch, Kibana** and **Log stash**
* Participated in all development activities with in Agile development methodology and Test Driven Development (TDD) environment.
* Involved in developing code for obtaining bean references in **spring** **framework** using **Dependency Injection (DI)** or **Inversion of Control (IOC)** using annotations.
* Used **Spring Annotations** to simplify the business logic for creating **Spring MVC RESTful web services**.
* Implemented pre-authentication and data base security using **Spring security** and securing application access and **Spring Batch** for scheduling and maintenance of batch jobs.
* Developed **Microservices** using **Golang** and developed corresponding test cases.
* Created PDF reports using **Golang** and **XML** documents to send it to all customers.
* Experience as a **PL/SQL** (Packages, Stored Procedures, Triggers, Views, and Functions) developer in Analysis, Design, Data Modeling (Logical and Physical), and Implementation of Business Application using Oracle RDBMS.
* Created Hibernate persistent and configuration files for **ORM** implementation, developed Model classes for View Resolutions and **DAO** implementation classes extended from Hibernate Dao Support.
* Composed and executed **MongoDB** scripts to insert and update **NoSQL** database and reporting.
* Pulling API, demonstrating the knowledge of **C.R.U.D.** (create, read, update, delete) functions, creating LogIn sequence, using **Mongo Database**.
* Built **RESTful web service** by building Angular.js Server in the back-end to handle requests sent from the front-end **jQuery** **Ajax** calls. Designing and developing RESTful Micro Services using Spring Framework.
* Calling the dependent micro services using Spring **OAuth2RestTemplate**.
* Designed **Micro Services** specification - End Registration, Request, Response, HTTP Codes, Error Codes.
* Experience in re-architecting monolithic architecture service into **microservices** based architecture using spring boot and **pivotal cloud foundry**.
* Used Micro **service** architecture, with **Spring Boot** based services interacting through a combination of **REST** and **Apache Kafka** message brokers, **Zookeeper** is used as the monitoring tool.
* Used **Apache Camel routes** to build customized routes and Spring XML and Camel blueprint to integrate with other Enterprise applications.
* Implementing or exposing the **Microservices** to base on **RESTful API** utilizing **Spring Boot** with **Spring MVC**. All the functionality is implemented using **Spring IO / Spring Boot** and Hibernate ORM.
* Created a RESTful Web API service using **ASP.NET Web API** which was consumed on the front-end by Angular **TypeScript** reusable components and services.
* Developed **Apigee** API to interact with Rest web services.
* Used **apache camel** to integrate the different applications using protocols like **Http, ActiveMQ.**
* Used **Scala** for coding the components in **Play** and **Akka.**
* Setup **Spring 4.x** Job by configuring job **Task lets, Quartz Scheduler** and **Listeners** for error handling, report generation and service retry mechanisms on failures.
* Setup the continuous Integration (**CI)** process and continuous deployment **(CD)** jobs in **Jenkins** brew master instance, which reduces the time for the deployment of **micro services.**
* Experience working on several **docker components** like **Docker Engine, Hub, Machine, creating docker images**, **Compose, Docker** Registry and handling multiple images primarily for middleware and domain configurations.
* Tested **REST** services using google chrome’s **POSTMAN** plugin.
* Implemented Maven Script to create **JAR, WAR, EAR & dependency JARS** and deploy the entire project onto the **WebLogic** Application Server.
* Used **GIT** for version control, experience with **git-bash and git-hub.**
* Prepared **Junit, Selenium, Test NG** test cases and executed them as part of auto build process from **Jenkins Jobs.** Also, set upVue.js unit testing with Karma and Jasmine.
* Integrated **SOAPUI** and **JMeter** Test cases into Maven.
* Monitored the error logs using **Log4J** and fixed the problems.

**Environment: Java 7/8, HTML 5, CSS 3, Bootstrap, Angular 2, JavaScript, JSON, Ajax, Maven, Spring Framework, Hibernate ORM, PL/SQL, MongoDB, RESTful Web Services, TDD, Elasticsearch, Apache Kafka, Apache camel, Active MQ, Scala, WebLogic Application Server, Jenkins, Docker, CICD, JMeter, Selenium, Test NG, Git, Dom, Jax-rs, Junit, Log4j.**

**Client: Vanguard, Malvern, Pennsylvania. July 2015 - Dec 2016**

**Role: Java/ J2EE Full Stack Developer**

**Description:** Vanguard is an Americans Investment Management company. They are the largest provider in Mutual funds and in Exchange trade funds. They provide financial advices to corporate, private clients about investment matters. The objective of Investment Management is to set-up, maintain, and share investment information in a flexible system that easily supports company growth, increases speed to market and improves data accuracy, while reducing user workload.

**Responsibilities:**

* Used **Agile** Methodologies to manage the full life cycle development of the project.
* Involved in development, design and implementation front end part of the widget-based application using **HTML5, CSS3, AJAX, Bootstrap, jQuery, JavaScript.**
* Configured **React-Redux** for state management and **React-Router** for programmatic navigation.
* Implemented **Store-Redux** for holding the whole state tree of application, **Reducer-Redux** for describing actions.
* **Web pack module bundler** and **Babel java script compiler** are used accompanying **React JS.**
* Implemented **Spring Boot** to create a **CRUD** backend for our **React**-fronted application.
* Extensively used **Spring Framework** modules like **IOC, Auto Wiring, JDBC Templates, Spring Security, AOP**.
* Developing **spring boot** application using **microservices** architecture with **Spring Eureka** to maintain small and lightweight services and communication between these services are done by using API routes.
* Used **Spring Batch** as spring batch jobs can meet the requirements of reliability, robustness, and traceability, which are essential for automatic processing of large amount of data.
* Created Typescript reusable components and services to consume REST API's using RxJS and HTTP provided by Angular.
* Extensively used **Hibernate** concepts such as **inheritance, lazy loading, dirty checking, and transactions.**
* Strong in writing SQL queries in SQL, triggers, stored procedures in Relational Database Management Systems like **MySQL** and Microsoft SQL Server.
* Worked with **Cassandra Node Connector** for database persistence to interact with **Cassandra NOSQL DB** with **Spring Data** to unify and ease the access to Cassandra persistence stores.
* Worked on **Swagger** UI to interact with the API’S. Designed and documented APIs using **Swagger**.
* Hands on experience using Messaging Services like **JMS,** **MQ Series, Active MQ.**
* Moving existing monolithic architecture to **microservices** and migrating them to **AWS cloud**.
* Implemented business logic using algorithms and Data structures.
* Developed RESTful web services using Java, Spring Boot, NoSQL databases like MongoDB.
* Created and configured **AWS** **Elastic Load Balancers** and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Used **AWS** for Deploying, managing and operating scalable, highly available, and fault tolerant systems.
* Utilized **AWS** Lambda platform to upload data into **AWS S3** buckets and to trigger other Lambda functions.
* Experience of Database design in **Postgre** query-based programming and **PL/SQL** procedure programming and proficient in Database programming using **SQL** and **HQL**.
* Creating develop and test environments of different applications by provisioning Kubernetes clusters on AWS.
* Developed a code for Web services using **JAX-WS, SOAP** and used **SOAP UI** tool for testing the services.
* Consumed Web Services (**SOAP**) from third party for authorizing payments to/from customers.
* Generating various capacity planning reports (graphical) using **Python** packages like **Numpy, MatPlotLib**.
* **Gradle** build tool is used to deploy the application on the web servers i.e. **JBoss**.
* Used **JIRA** for project management, Issue tracking and monitoring errors and fixed the errors.
* Provide **ANT** build tool for building and deploying the application onto the production boxes. Managed source repository using **SVN** for version control tool.
* Hands on experience in writing up test cases using **Junit** and **Mockito.**
* Experience with Unix, Linux, and Windows operating systems.
* Experience in designing and developing applications using Web Sphere application servers and Tomcat web server and Web logic server.
* Used **Log4j** framework to log/track application.

**Environment: Java 7/8, HTML 5, CSS 3, Bootstrap, ReactJS, Typescript, JavaScript, jQuery, Gradle, Spring Framework, Hibernate ORM, MYSQL, Cassandra, Mongo, SOAP web services, MQ Series, Active MQ, Python, AWS, Postgre, Cucumber, JBoss, Mockito, SVN, Junit, Log4j, Agile Scrum.**

**Client: JPMorgan Chase, Jersey City, NJ. Jan 2014 – June 2015**

**Role: Java/J2EE Developer**

**Description:** Portfolio appraisal of the home loan ‘Credit adjusting and Default’ applications in the Chase home finance line of business and give proposals to administration to maintenance, union and decommission of the applications. Improve existing applications to fuse new treasury rules according to Home Affordable Foreclosure Avoidance.

**Responsibilities:**

* Worked as Full Stack Developer assisting my team in developing two different Web-based applications. Followed **Test-Driven Development(TDD)** and **Agile** methodology.
* Used display tag to render large volumes of data. **Bean, HTML and Logic tags** are used to avoid java expressions.
* Participated in development of a well responsive **Single Page Application** (SPA) using **AngularJS** framework, **JavaScript** in conjunction with **HTML, CSS3** standards, with front-end UI team.
* Created and injected **spring** **services, spring controllers and DAOs** to achieve dependency injection and to wire objects of business classes.
* Used **Spring** Batch to design lightweight, comprehensive solution to enable development of batch applications.
* Developed and implemented Business Requirements using **Spring MVC framework**. Implemented cross-cutting concerns such as logging, authentication and system performance using **Spring AOP.**
* Created the User Interface screens using **Spring** MVC for logging into the system and performing various operations on network elements.
* Developed **Hibernate DAO classes** and with the **spring framework manager** classes retrieve and saving the data.
* Used **Hibernate** Detached Criteria, HQL and written some SQL queries for data retrieving.
* Hands-on writing **Stored Procedures, functions, triggers, DDL, DML SQL** queries. Experience in writing **SQL, PL/SQL** programming and SQL Loader.
* Used **Spring** framework to achieve loose coupling between the layers thus moving towards **Service Oriented Architecture** (SOA) exposed through **Restful** Services.
* Implemented **RESTful** Web Services using **Spring MVC** and **JSON.**
* Developed strategies, supported tools to create an efficient automated integration, release process using **Jenkins.**
* Analyze and resolve conflicts related to merging of source code for **GIT**.
* Continuous automated testing activity throughout agile development iterations, updated test results in **JIRA.**
* Expertise on Selenium Data Driven framework and integrating it with **Maven** [Build Management Tool], **TestNG** [Unit Testing tool] and **Jenkins** [Continuous Integration Tool].

**Environment: HTML, CSS, Bootstrap, AJAX, JavaScript, JSF, Angular JS, Spring, Hibernate, RESTful web service, Maven, GIT, TestNG, Jenkins, JIRA, XML, Web sphere, Unix/Linux, Web Sphere Application Server, PL/SQL, Oracle 11g.**

**Client: Valence Health, Chicago, Illinois. April 2012 – Dec 2013**

**Role: Java/J2EE Developer**

**Description:** This application used to collect the data from the host of hospitals and generate reports and used to collect information about doctors, patient’s cares. It makes insurance companies make more intelligent decisions about the market.

**Responsibilities:**

* Involved in complete software development life cycle with object-oriented approach of client’s business process and continuous client feedback.
* Worked on designing and developing a complete service-oriented system based on **SOA** principles and architecture in agile development environment.
* Employed **Agile Model** and best practices for software development.
* Engaged in developing the UI by using **HTML, JSF, jQuery**, **and JavaScript** and in some places used **AJAX** to make calls to other services and Involved in developing the **CSS** sheets for the UI Components.
* Extensively worked on **JPA** as persistence layer, involving **EJB annotations**, synchronizing Data base tables through XML in a secondary project.
* Developed web-based application using **spring** framework for MVC architecture.
* Setting up the basic project set-up from scratch of **Spring-Hibernate** App based on Design.
* Used **Spring Framework AOP Module** to implement **logging** in the application to know the application status.
* Used **Spring DAO Module** along with Struts Framework to deal with Database.
* **Spring MVC Framework IOC (Inversion of Control)** design pattern is used to have relationships between application components. It is also used to separate the application configuration and dependency specification from the actual application code.
* Worked on database connectivity using **Oracle** SQL Developer and pushing data back and forth from the database.
* Called external vendor applications using **Web Services** for delivering notifications.
* Used **SVN** for version control.
* Designed test cases using **Selenium**, **TestNG**, Maven & used Grid to run test in multiple browsers and Platforms.
* Worked on **Junit** for creating test cases for all the Business Rules and the application code.

**Environment: HTML, JSF, jQuery**, **JavaScript, Jboss, Spring, Hibernate, Spring MVC, SVN, SOA, JAX-WS, Apache Axis 2, Junit.**

**Client: GuideOne Insurance, West Des Moines, IA Oct 2010 – Mar 2012**

**Role: Java Developer**

**Description:** Guide one Insurance is one of the largest property and casualty insurance company in the United States. This project was a Web Based Application Development for the auto insurance consumer’s. New Customers can receive the online auto insurance quotes for their vehicles and existing customers have complete access to renew their subscription,

**Responsibilities:**

* Analysis and understanding of business requirements and implement the process using **Test Driven Development** (TDD) methodologies.
* Identified the Business requirements of the project and Involved in preparing System Requirements on it.
* Involved in Use Case Diagrams, Class Diagrams and Sequence diagrams using **Rational Rose**.
* Designed and developed the UI using Struts view component **HTML, CSS, JSP, JavaScript, AJAX, JSON.**
* Used **JavaScript** for the client-side validation
* Used **XML/XSLT** for transforming common **XML** format and **SAML** for Single Sign-On.
* Designed configuration **XML Schema** for the application.
* Used **XML Http Request** Object to provide asynchronous communication as part of **AJAX** implementation.
* Extensively used **MVC**, **Factory, Delegate** and **Singleton** design patterns.
* Used Spring Framework **AOP Module** to implement logging in the application to know the application status.
* **Spring MVC** **Framework IOC** (Inversion of Control) design pattern is used to have relationships between application components. It is also used to separate the application configuration and dependency specification.
* Used **Spring Framework** for Dependency Injection and integrated it with the **Struts Framework** and **Hibernate**.
* Used the **Struts Validation** and **Tiles Framework** in the presentation layer.
* Implemented the application using Jakarta **Struts Framework**, which is based on **MVC design pattern**.
* Used **SOAP** for Web Services by exchanging **XML data** between applications over **HTTP.**
* Wrote **Ant Scripts** to automate the build and deploy process.

**Environment: Core Java/J2EE, Servlets, JSP, HTML, JDBC, Ajax, Spring AOP Module, Ant Scripts, JavaScript, Eclipse, UML, Rational Rose, WebSphere Application Server, Junit, Ant, Adobe Flex.**

**Client: Next Set Software, Hyderabad Aug 2009 – Sept 2010**

**Role: Java Developer**

**Description:** It is a web-based solution that provides companies with a timely and cost-effective means of providing excellent customer service, sales assistance, and support which consists of four modules: Client Console, CSR Console, Supervisor Console and Administrator Console.

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle** (**SDLC**).
* Used **Rational Rose** for the Use Case Diagrams, Object Diagrams, Class Diagrams and Sequence Diagrams to represent the detailed design phase.
* Front-end is designed by using **HTML, CSS, JSP, Servlets, JSTL, Ajax and Struts**.
* Involved in writing the exception and validation classes using **Struts** **validation rules**.
* Used **JavaScript** for the web page validation.
* Created **Servlets** which route submittals to appropriate Enterprise Java Bean (**EJB**) components and render retrieved information.
* Written **ANT** scripts for building application artifacts.

**Environment: Java, J2EE, Servlet’s, Struts, JSP, XML, DOM, HTML, JavaScript, JDBC, Web Services, Eclipse Plug-ins.**