**SUNAYANA TIRUMALASETTY**

**SUMMARY**

* Java Software developer with six years of IT experience in analysis, design, development, deployment, testing, and support of client server systems and enterprise web applications
* Experience in Core Java, experienced in multi-threading, working with Core Java SE 8 features like Lambda functions, Stream API, Time API, and Generics
* Experience in Java, J2EE, JDBC, JSP, Servlets, Struts, Springs Core, Spring MVC, Spring Boot, Spring Security, Hibernate, Web Services (Soap and Rest API)
* Skilled in utilizing tools in N-tier and Microservices architecture applications using Spring Boot
* Experience in JSON Web Tokens (JWT) to securely communicate JSON Objects
* Proficiency with SQL databases including Oracle, PostgreSQL, DB2, MySQL, and NoSQL databases such as MongoDB, Couchbase, Azure Cosmos DB
* Proficient in SQL queries, Stored Procedures (PL/SQL), Functions and Triggers, and Packages
* Experience working with messaging queues technologies such as Kafka, RabbitMQ, Amazon SQS
* Expertise in building applications using maven, deploying enterprise Java beans using Apache Tomcat, JBOSS, WebSphere, Web Logic
* Experience in using Log4j/Splunk for logging, Dynatrace and AppDynamics for application performance monitoring
* Performed unit testing using Junit, Mockito for all the developed modules to ensure code coverage using JaCoCo, SonarQube, Jenkins
* Thorough exposure to Software Development Life Cycle with good knowledge of processes such as SVN and GitHub, Backlog/Defect tracking using Jira and VersionOne, incident management using ServiceNow, and documenting/collaborating using Confluence
* Expertise working with CI/CD tools and creating pipelines for application development using Jenkins, Spinnaker
* Experience working with Docker for creating, running containers and Kubernetes for hosting, managing, and automating the deployment, scaling, and operation of containers across clusters of hosts
* Expertise in building and deploying applications on AWS Cloud using services VPC, EC2, S3, RDS, Lambda functions, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Group, Autoscaling and RDS using CloudFormation templates
* Hands-on experience with Waterfall, Agile/Scrum and SAFe software Development methodologies
* Proven experience in System Analysis, Design, and Development using UML methodology

**EDUCATION**

* Master of Science in Computer Science, Texas A&M University, Kingsville, TX, USA – May 2018
* Bachelor of Technology in Electronics and Communication Engineering, Vignan University, Guntur, India – May 2015

**SKILLS**

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| Web Languages | C, C++, Java 8/11, Python, SQL |
| Core Java | Data Structures, Collections, Generics, Serialization, Multi-threading, Functional Programming features |
| J2EE Standards | Web Services (SOAP, REST), XML, JSON |
| Frameworks | Spring, Spring MVC, Hibernate, jQuery, Junit, Struts, JSF, Web Services, SLF4J/Log4J, Spring MVC, Spring REST, Spring Batch, Spring Boot, Spring security, Microservices |
| Scripting Languages | Java, Python, JavaScript, TypeScript, UNIX Shell Script, SQL, PL/SQL |
| Web services | SOAP, REST, WSDL |
| Design Pattern | MVC, DAO, DTO, Singleton, Factory method, Builder, Prototype, Façade, Visitor Service Locator, Business Delegate |
| ORM | JPA, Hibernate, Spring Data JPA |
| Protocols | TCP/IP, HTTP/HTTPS, FTP, SMTP |
| Version Control | SVN, CVS, Git |
| Application/Web Server | Apache Tomcat, Web logic Server 8.1, IBM Web sphere, Glassfish, JBoss |
| Database | Oracle, DB2, MySQL, PostgreSQL, Couchbase, Azure Cosmos DB |
| Web Technologies | HTML5, CSS3, Bootstrap, XML, JavaScript, AJAX, jQuery, JSTL, Angular 11 |
| Operating System | Windows, Linux, and Unix |
| Cloud Technologies | GCP, AWS |
| IDE's | Eclipse, Spring Tool Suite, IntelliJ, Visual Studio Code, Notepad++ |
| Miscellaneous | Agile, SAFe, Jenkins, Maven, GitHub, TOAD, JIRA, VersionOne, Confluence, SQL Developer, Swagger, Postman, Apache JMeter, SoapUI, Splunk, Dynatrace, AppDynamics, FileZilla |

**EXPERIENCE**

**Jun ’20 – Current** *Software Engineer,* **FedEx, Dallas, TX**

This project is to develop, modernize, integrate, and maintain various services for customer authentication and Identification management module in Fedex.com includes functionalities such as User Login, User Registration, Pin generation and Pin validation for Login MFA, Device Management, social login.

* Performed analysis, specification, design, implementation, and testing phases of Software Development Life Cycle (SDLC) and used agile methodology (SCRUM) for developing application
* Conducted analysis, design, and development of migrating from old UI to a single page web- application using Angular 11 as front-end
* Participated in design discussion of backend rest API end points with Spring to serve UI requests
* Developed Microservices using Spring, Spring Boot, Spring Data JPA, Spring Security, and Spring Cloud
* Implemented the application using the concrete principles laid down by several design patterns such as MVC, Business Delegate, Session Facade, Service Locator, Data Access Object, Singleton, and Factory
* Implemented database integration using ORM frameworks such as Hibernate, Spring Data JPA with spring technologies
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup
* Implemented partitioning of Kafka messages and setting up the replication factors in Kafka cluster
* Validated the built API in the browser using Postman and Swagger API
* Developed test cases and performed unit testing with Junit, Mockito and followed Test - Driven Development
* Wrote Functional test cases using Cucumber Framework to achieve Behavior driven development (BDD)
* Used GitHub for version control across common source code used by developers
* Used Jenkins for the automatic build process to perform integration testing and deployment of software
* Involved in design and deployment of a multitude of cloud services on AWS stack such as EC2, Rout53, S3, RDS, Dynamo DB, SNS, SQS, IAM, while focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation
* Experience in suing tools like Docker compose, Kubernetes for orchestrating and deploying the services related to containers and with container-based deployments using Docker, working with Docker images, Docker Hub
* Used Log4j Framework in the Spring Boot application for logging in Splunk, performed application performance monitoring using Dynatrace and AppDynamics
* Helped the production support team in dev analysis

**Environment:** AWS, JWT, Restful API, Web services, Java 8/11, J2EE, HTML, XML, DOM, Angular 11, Spring, Spring boot, Spring security, Hibernate, Spring Data JPA, Kafka, Oracle, Cosmos DB, SAX, Maven, Eclipse, Docker, Kubernetes SOAP UI, Postman, Hibernate, LOG4J, Splunk, AppDynamics, Git, Jira, Confluence

**Aug ’19 – May ‘20** *Technology Analyst,* **Walmart, Bentonville, Arkansas**

This project consists of three applications Hiring Center, Associate Career Portal, Recruiting Portal. This system is used to Hire/Transfer/Job change for Store Hourly Positions, and this is one of complex and highly used systems in Walmart. The main purpose of this project is simplified hiring process to save hiring manager’s time. 2.5 million Walmart associates use this portal to apply/preference store hourly jobs

* Involved in requirement Analysis to understand the company needs for various downstream systems and created the designs using class diagrams and sequence diagrams using UML technology.
* Designed POCs for proving the third-party service's credibility and functionality
* Used Spring Boot, RESTful webservices, Spring data JPA at back end using micro-service-based architecture which helps to develop applications with ease
* Handled database interaction writing SQL Queries, Oracle 11g was used as Database and designed Health Check module to monitor current health of the system using Splunk
* Deployed the application on Tomcat 6/5.5 and WebLogic server. And wrote shell scripts for maintaining servers
* Coordinated with the testing team for bug reports for fixes and tracking these tickets through JIRA and ServiceNow
* Incorporated error handling through exception handling in different layers to generate custom exceptions and error codes
* Built and deployed the micro-services in dev space of cloud in production environment
* Implemented different levels of logging throughout the system using log4j logger
* Worked on operations and maintenance driven coding projects

**Environment:** Git, Java 8, Spring MVC, Spring Boot, Microservices, Spring Data JPA, Maven, Oracle 11g, Jenkins, ServiceNow, SQL, XML, JSON, SOAP, RESTful Webservices

**Jun ’18 – Jun ‘19** *Programmer,* **Missouri Office of State Courts Administrator, Jefferson City, MO**

This project is to develop, modernize, integrate, and maintain various services for municipal courts of Missouri portal including functionalities for user to search for a case, electronic filing, submit jury response, make a payment, find location of court and judicial personnel of the court.

* Involved in Requirements gathering, Analysis, Design, Development and Testing of application developed using AGILE methodology
* Maintained CSS3 and HTML5, Bootstrap, JavaScript, jQuery, AJAX for designing responsive webpages
* Developed various JSP custom tag libraries i.e., JSTL libraries for achieving most code-reusability
* Implemented MVC architecture by using spring framework 3.0 in terms of JSPs
* Developed persistence layer (DAO), presentation layer (controllers) and used J2EE design patterns like Model View Controller, Data Access Object, and Business Delegate, etc.
* Closely worked with Oracle database and wrote several SQL Queries to interconnect with user interfaces
* Worked on integration using ORM frameworks such as Hibernate with spring technologies
* Experience in creating tables and sequences for experimental data load capture. Loaded the data into the tables using TOAD
* Deployed the complete Web application on WebSphere server and used Log4J to capture the log that includes runtime exceptions further to monitor and debug when issues arise.
* Used Maven to build war files to deploy on Application Servers
* Used CVS for version controlling and Jenkins for Continuous integration and continuous deployment

**Environment:** Java, J2EE, JDBC, Servlets, JSP, JSTL, ORM, Hibernate, Spring, Spring MVC, Maven, HTML, CSS, JavaScript, jQuery, Ajax, CVS, Oracle, SQL/PLSQL, TOAD, XML, WebSphere, JSON, JIRA

**Dec ’17 – May ‘18** *Java Developer,* **State of Missouri, Jefferson City, Missouri**

The core requirement of the project is to build a completely new student web portal for MDHE College and Degree search, Academic Program Action, Program Inventory and Security which includes responsive UI and a newer design and functionality. Both frontend and backend are developed to follow the MVC Architecture

* Designed the application using the J2EE design patterns such as Session Façade, Business Delegate, Service Locator, Value Object, Value List Handler, Singleton
* Developed Use case diagrams, Object diagrams, Class diagrams, and Sequence diagrams using UML technology
* Maintained existing UI applications and upgraded them using HTML5, CSS3, Bootstrap, jQuery, AJAX, JavaScript, Angular 2.0 and JSON.
* Developed J2EE applications using HTML, JSPs, Servlets, Struts, EJBS Framework
* Developed session, entity beans and message driven beans to access data from Oracle server
* Stored authentication and authorization detail in database to use these database authorization detail with spring security annotation for apply method level spring security and used JSP tags to provide UI level spring security
* Used PL/SQL stored procedures for application needed to execute as part of a scheduling mechanisms
* Wrote JUNIT test cases for testing all calls and Spring MVC validations

**Environment:** Java/J2EE, Struts 1.2, EJB, Servlets, JSP, JDBC, HTML, CSS, JavaScript, Angular 2.0, JUnit, WebSphere 6.0, Eclipse, SQL Server, Spring MVC, log4j, CVS

**Jun ’15 – Jun ‘16** *Java/J2EE Developer,* **Celcom, Hyderabad, India**

The core requirement of the project is to configure plans as a package of components for both postpaid and pre-paid customers and to analyze data for business improvements

* Involved in the analysis, design, and development phases of the Software Development Life Cycle using Agile development methodology to deliver regular updates to business team
* Maintained and modernized UI Applications using HTML5, CSS3, JavaScript, jQuery, AJAX, XML and JSON
* Extensively used Core Java, collections, multi-threading and J2EE concepts to develop and maintain enterprise application and automate the process of configuring the seasonal plans, discounts that Celcom wants to offer to its end customers
* Installed, configured, deployed, implemented load balancing, performance tuned and maintained applications using Java-J2EE patterns like Model View Controller (MVC), Business Delegate, Data Transfer Objects, Data Access Objects, factory patterns
* Designed and developed the end points (Controllers), Business Layer, DAO Layer using Hibernate/JDBC template, using Spring IOC and Dependency Injection
* Modified the Spring MVC, REST Controllers and Service classes as part of adopting offspring framework
* Implemented Spring MVC Transaction Management, Spring/Hibernate Batch Transactions and Hibernate cache concepts
* Provided support for application release process, investigated and troubleshoot production issues.
* Provided weekly operational reports to the stakeholders on service performance, achievements, miss-outs, SLA adherence, opportunities for improvement

**Environment:** Java 7, Spring MVC, XML, Hibernate, Bootstrap, JIRA, Spring Framework, Spring MVC, Spring JDBC, Hibernate, Restful Web services, Micro services, Maven, HTML5, CSS3, JavaScript, jQuery, AJAX, Tomcat