**Sai Ambati**

JAVA/J2EE Full Stack Developer

**Cell: 956-520-2355**

[ambatisai899@gmail.com](mailto:ambatisai899@gmail.com)

**Professional Summary:**

* Overall 8+ years of extensive experience in **object-oriented design/analysis, Java development, web services** for **service-oriented architecture**, and data modeling, skilled at progressing from problem statement to well-documented designs and code.
* Experience in working with various Software Development Life Cycle (**SDLC) methodologies** based on **Agile, Scrum.**
* Experienced in UI frame works such as **jQuery, Ajax, Google Web Toolkit (GWT), JavaScript, NodeJS, ReactJs, BackboneJS, Angularjs, Tag Libraries, Custom Tags**.
* Experienced in Full stack UI technologies using **Grunt js, Gulp Server, Yoman generator** for Angular.
* Expertise in design and development of various web and enterprise-level applications using Java/J2EE technologies such as **Spring, Hibernate, EJB, JPA, JSF, Struts framework, Servlets.**
* Strong experience in Spring Framework modules such as **Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring Netflix, Spring Zuul.**
* Extensive hands-on on designing **Micro service** applications with **fail safe** methodology using **Circuit Breaker pattern** with **Hystrix/Dashboard** and load balancing using **Spring Ribbon**
* 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.**
* Good knowledge in **Hadoop** Architecture with various components such as **HDFS**, **Flume, Pig** and **MapReduce**.
* Used **Spark** Streaming to divide streaming data into batches as an input to spark engine for batch processing.
* Experience implementing **Enterprise Java Bean (EJB)** as a middle layer for communication with database servers.
* Experience in Integration tools **Oracle** SOA Suite/BPEL/Fusion Middleware, web-methods, Vitria and **Apache CAMEL.**
* Good knowledge on Spring Data and Spring Batch for better transaction management.
* Good Knowledge in **Apache ActiveMq Series with Camel** most widely used as service bus.
* Good experience with messaging systems like **Kafka event sourcing.**
* Hands on experience in **XML** related technologies **JAXP (SAX, DOM), JAXB** parsers for parsing XML in to Java object.
* Strong experience in designing and developing data models and accessing from Java applications using **SQL, PL/SQL, ORM tool Hibernate** and has experience with **NoSQL** databases like **MongoDB, Cassandra**.
* Proficient in using Amazon Web Services **AWS**. Extensive experience focusing on services like **EC2, VPC, Cloud Watch, Cloud Front, Cloud Formation, IAM, S3, Amazon RDS, Elastic Cache.**
* Good experience in using **Amazon Web Services (AWS)** and **AWS SNS/SQS** for delivering messages.
* Deploy application updates to **AWS** and monitored the load balancing of different instances.
* Experience in developing web services like (**SOAP and REST**) and consuming web services with **Python**.
* Good experience on **SOA architecture** and web services **(SOAP, WSDL, UDDI)** using **Apache Axis2** and **RESTful** web services in java with **JAX-RS** reference implementation Jersey.
* Also worked on creation of **Docker** images, Containers, push/pull and on integration with **Spring Boot.**
* Experience in configuring and deploying the applications into **Tomcat, WebSphere, WebLogic** and **Jboss** Servers
* Extensively worked on **UNIX shell scripts** to do the batch processing.
* Hands on experience in configuring and using **Maven and Ant** build tools**.**
* Expert in using version control tools such as such as **SVN, CSV and GIT.**
* Experienced in **Splunk Log Management** Creating dash boards, monitoring, reporting, Email Notification to Users.
* Experienced in writing and implementing unit test cases using **Junit**, **Easy mock** and **Mockito**.
* Ability to adapt to evolving technology, strong sense of responsibility and accomplishment.

**TECHNICAL SKILLS:**

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| **Languages** | JAVA 8.0/7.0/6.0/5.0, Python, UML, XML, SQL, PL/SQL |
| **Java/J2EE Technologies** | J2SE, J2EE, JDBC, JSP, Servlets, JMS, EJB, SOAP and  Rest Web Services |
| **Frameworks** | |  | | --- | | Spring Data, Spring AOP, Spring Boot | | Spring Data, Spring AOP, Spring Boot |   Spring, Spring MVC, Hibernate, Struts, JSF, jQuery, Spring Boot,  Spring Data   |  | | --- | | Spring Data, Spring AOP, Spring Boot | |
| **Databases** | Oracle (SQL & PL/SQL), My SQL,MongoDB, Cassandra |
| **Application/ Web Servers** | Oracle/BEA WebLogic 8.1/9.1, IBM WebSphere 5.1/6.0/6.1/  7.0, JBoss, Tomcat 5.0.28/6.0 |
| **Methodologies** | Agile, Scrum |
| **Version Control** | SVN, CSV, GIT |
| **XML Related and Others** | XML, DTD, XSD, XSLT, JAXB, JAXP, XSL, JAXB, SAX, DOM |
| **Web technologies** | AngularJS, JSP, JavaScript, Json, jQuery, AJAX, XML, XSLT,  HTML, DHTML, CSS |
| **Web Services** | Restful services, WSDL, SOAP, JAV-WS, CXF, AXIS, JAX-RS,  JERSEY |
| **Building tools** | ANT, Maven, Jenkins |
| **IDE tools** | Eclipse, NetBeans, Intellij, eclipse RAD, WebStorm, STS |
| **Platforms** | Windows,Mac, UNIX, LINUX |
| **Testing technologies/tools** | Junit, Jtest, Log4J, JMeter, SeleniumWebDriver, Jasmine,  Karma,Protractor, Jenkins, Docker, SoapUI, Mockito |

**PROFESSIONAL EXPERIENCE**

**Client: ACT, Des Moines, Iowa June 2016-Till Date**

**Role: Java Full Stack Developer**

**Description:**ACT is a non-profit organization which mainly designs the test application which is used as an entrance exam to assess high school students for college readiness. The project deals with improvement& security of the existing test application for college admissions.

**Responsibilities:**

* Actively involved in Analysis, Design, Development, System Testing and User Acceptance Testing. Successfully followed Sprint planning and estimation for user stories in **Agile Environment**.
* Designed and Developed enterprise level **angular** component libraries such as data-tables, autosuggestion, pagination etc. Implemented **React JS** on server-side **validations,** to **handle actions** and **Events** and **Encapsulation.**
* Re-design and improve the webpages and its performance using **HTML/CSS3/Bootstrap/JavaScript/Ajax** and Dojo.
* Implemented Spring Data DAO components.
* Developed the application using **Java 8** and implemented its features like **lambdas Expressions, Time API, Streams, functional interfaces, collectors, default methods, type interfaces, foreach.**
* Used **multithreaded** environment to run processes asynchronously using different future calls to access the data.
* Extensively used various **Spring Framework** modules like **MVC, Dependency Injection (IOC), Auto Wiring, SpringSecurity and AOP**. Created and injected **spring services**, **spring controllers** and **DAOs** to achieve dependency injection and to wire objects of business classes.
* **Spring Boot**microservices were developed using microservice architecture with **RESTFUL**and **Apache Kafka.**
* Exceptionally handled heavy traffic with the help of **Spring Ribbon and Kafka** broker service.
* Employed **fail safe** and **circuit breaker patterns** for the first time in Client’s email applications using **Hystrix** and **Hystrix Dashboard** in **Spring Boot** Micro Service Applications.
* Implemented functionalities using **Spring IO / Spring Boot** with **Thymeleaf** and **Hibernate ORM.**
* **Spring security is used** for**authorization/authentication, session fixation, clickjacking, cross site request forgery.**
* Configured the **Hibernate configuration** files to persist the data to the **Mongo DB Database.**
* Developed **Python** based API (**RESTful** Web Service) to track the events and perform analysis using **Django**.
* Generating various capacity planning reports (graphical) using **Python** packages like **Numpy, MatPlotLib**.
* Wrote and tested **Python scripts** to create new data files for Linux server configuration using Python template tool.
* Used **Spring Tool Suite (STS)** which is based on **Eclipse** to develop and debug application code.
* Creating **REST** based Web Services by establishing links using **Hateoas** from spring based Applications
* Worked on **Swagger** UI to interact with the API’S. Designed and documented APIs using **Swagger**.
* Migration of Existing Application to **AWS** cloud. Used Amazon Web Services (**AWS**) like **EC2, S3**, RDS, cloud watch and Cloud Front for promoting code in various environments.
* Deployed **Micro-services** as**Restful** Java Web Services on **Amazon Elastic Beanstalk.**
* Developed **spark** jobs for batch processing and worked on **spark SQL** and **spark streaming**.
* **Docker** containers were used to deploy the applications as part of scaling application using **Micro services** and increase isolation. Image creation, pushing and pulling of images was also part of deploying application
* Using **Kafka** on publish-subscribe messaging as a distributed commit log, have experienced in its fast and scalable
* Created**ApacheCamel** process with multiple routes for reading files from host location.
* **GIT** is used for the version control, **Maven** is used for build script and configured **log4j, .log** files.
* Using **JUnit** test in Eclipse, developed Unit test cases and test suite**. Curl** was also implemented to test.
* Used **JIRA** for project management, Issue tracking and monitoring errors and fixed the errors.
* Used **Jenkins** as the integration tool and improved **scalability** of applications on **cross-platforms.**
* Used **Drools** Decision table using excel sheets with a Spring MVC project.
* Involved in **System Testing, Integration Testing, and Production Testing** on **WebLogic** Server.
* Worked on **Karma** to unit test the **Angular API** modules.
* Track production incidents, identify and prioritize scope for bugs and enhancements, conduct reviews with State counterparts and plan releases.

**Environment: JAVA8, J2EE, Spring, Spring boot, Spring MVC, Java Scripts, Hibernate, Rest, Spring Boot,** **Maven, JUnit, Angular, Hystrix Dashboard, AWS, Netflix Ribbon, Spring Kafka,MAVEN, Junit, Jenkins, Agile Methodology, Eclipse, Curl, GIT,Mongo DB,Log4j, PL/SQL, STS, Docker, Hateoas, WebLogic Application Server, Karma.**

**Client: TIAA Cref, Houston, TX Jan 2015- May 2016**

**Role: Java/J2EE Developer**

**Description:**  Created an access checking functionality to the existing banking application. Theapplication is based on the MVC architecture. My Access checking module will be displayed in AccountsOverview. Financial services via EFS are enabled following a marketplace registration process. Users ofthe marketplace (e.g., buyers and sellers) are then enrolled with the EFS as users of the registeredmarketplace. Upon enrollment, financial services are enabled to the users as per the agreement withthe associated marketplace.

**Responsibilities:**

* Used **Agile Methodologies** to manage the full life cycle development of the project.
* Participated in development of a well responsive **Single Page Application** (SPA) using **AngularJS** framework, **JavaScript** and **jQuery** in conjunction with **HTML, CSS3** standards, with front-end UI team.
* Use **JSF (Java Server Faces)** to implement component based User Interface Applications.
* Developed **server side** JEE application components using **Spring, Spring MVC, Annotations, Servlets, JDK 1.7, EJB’s.**
* Used Java8 Lambda expression for rewriting the code.
* Used the fundamentals of Java8 features like parallel streams and filters through lambda expressions to handle searching.
* Extensively used **Spring Framework** modules like **DI(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 for the entire cluster.
* 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.
* Parsed the data to project to client and handled the security and Authorization using **Spring Security** and **OAuth**.
* **Spring Transaction** is used for the degree of isolation to work with other transactions and to execute within a transaction scope to run that transactionand used to check out before timing out of the transaction.
* Extensively used **Hibernate** concepts such as **inheritance, lazy loading, dirty checking, locking, and transactions.**
* **Hibernate DAO classes were developed to retrieve and save data using Spring framework manager classes.**
* Performance monitoring of **Mongo** databases with **OPS manager/MMS** and familiar in installing and maintaining **MongoDB** in private Cloud Environments. Worked on multiple **BSON** type objects and used based on requirement.
* Worked on WSO2 for monitoring API usage. Used Spring data for data updating and retrieval.
* Developed a code for Web services using **JAX-WS, SOAP** and used **SOAP UI** tool for testing the services.
* Consumed Web Services (**WSDL, SOAP**) from third party for authorizing payments to/from customers.
* Modified existing applications to a suite of **microservices** and all **microservices** to facilitate deployment using **Spring Boot** and **Junit** and **PowerMock** frameworks for unit testing.
* Involved in developing **microservices** integrated with **VSTS** for **CI/CD** by automating the build/release process.
* Moving existing monolithic architecture to **microservices** and migrating them to **AWS cloud**.
* Created and configured **AWSElastic Load Balancers** and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Deployed **Docker** contained Spring boot micro services in to **AWS EC2 container** service using **AWS admin console** and used **lambda** to run applications in **AWS console**.
* Deployed and tested on **WebSphere** application server.
* Configured **Maven** for Java automation projects and developed Maven Project Object Model (POM).
* Writing Unit test cases using **JUNIT** testing framework and performed unit and system testing.
* Used **Log4J** to capture the log that includes runtime exceptions, monitored error logs and fixed the problems.
* **Selenium’s** playback tool feature for authoring tests has been used in executing more than 100 test cases.
* Used **IBM Clear case** as version controlling system.

**Environment:**

**JAVA8, Agile, Servlets, Bootstrap, HTML, CSS3, AngularJS, JSP, HTML, XML, JSF, AJAX, jQuery, JSON, Spring MVC, JDK 1.7, EJB, JMS, J2EE, Eclipse, Spring Batch,Security,Transaction, Hibernate, Spring Boot,** **Apache Tomcat, MySQL, PL/SQL, Apache Axis2, SOAP, WSDL, SOAPUI, Microservices, AWS, Maven, Junit, Log4j, Selenium**.

**Client: Dupont Pioneer-Johnston, IA June 2013- Dec 2014**

**Role: Sr. Java/J2EE Developer**

**Description:**It is a Loan Management system application that helps to manage loans that were loanedto several farms, famers, agencies etc. This application allows agents and customers to process theirloans (In-store/Web). The web application allows the customers to send their checks, payment info viaelectronic modes. They can purchase various types of seeds with the loan amounts and can work withagencies on any of their issues.

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle (SDLC)** such as requirements gathering, analysis, design, development, testing and production environments.
* Worked on the development and testing of the infotainment module using **Agile (SCRUM)** methodologies
* Involved in development of User Interface using **XSLT, HTML, JavaScript, Ajax, DOJO and JSTL**
* Created Dialog boxes using **DOJO** for better look and feel.
* Used **XSLT** for all the front-end development.
* Involved in writing XML configuration file for Hibernate-Database connectivity. Extensively used Spring Data JPA and Hibernate to define entity with annotations.
* Performed **JavaScript Validations** on the data submitted by the user.
* Used **Node.js** for developing single page web applications.
* Involved in the design of the applications using **J2EE**and employs a **Model/ View/ Controller (MVC)** design pattern
* Used **Spring 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.
* Worked on **Mongo DB** concepts such as **locking, transactions, indexes, replications, schema design.**
* Implemented multiple high-performance **Mongo DB** replica set.
* Worked withother NoSQLand Big data technologies such as**Cassandra** and **Hadoop**
* Developed Web Services **SOAP/HTTP, SOAP/JMS** using**SOA** technologies such as **SOAP, WSDL** and **UDDI**
* Experience with basic **WebSphere** Administration- Deploying EAR’s into various environments (TEST, QA, etc.) through Admin Console, JMS, and Data Source Configurations etc.
* Developed unit test cases using **JUnit and Mock Objects.**
* Project coordinationwith other Development teams and developed good working environment.

**Environment: Agile, XSLT, HTML, JavaScript, Ajax, DOJO, JSTL,Node.js, J2EE, Spring MVC, Spring Boot, Spring AOP, Struts, Spring DAO, Mongo DB, Cassandra, Hadoop, SOAP, WSDL, WebSphere, JMS, Junit, Mockito**

**Client: T-Mobile, Irvine, CA May 2012- May 2013**

**Role: Sr. Java/J2EE Developer**

**Description:** T-Mobile Universe Rebellion has three channels Retail, Care and Web. Retail Application isin store system, Care Application is used by Customer Care Representatives and Web Application isdirect customer interactive system. All three systems interact with Façade API and have almost similarset of flows.

**Responsibilities:**

* Involved in software development life cycle (SDLC) with object oriented approach of client’s business process.
* Worked on designing and developing a complete service oriented system based on **SOA** principles and architecture.
* 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.
* Involved in the development of **Servlet, Struts Action classes, Business Objects, Web Services.**
* Each application was divided into separate or individual **Micro-services** where each service had its own functionality and loosely coupled with the other components of the Application.
* Deployed the Application into **Docker** container and made easily accessible at runtime using **Cloud Foundry** and other cloud services like **AWS, Netflix Eureka, Spring Hystrix** as fallback method, **SpringRibbon** for load balancing and a broker service to maintain status using **Spring Kafka** and **Zookeeper.**
* Developed Struts Action Forms, Action classes and performed action mapping using Struts.
* Used Web Services to publish the credential validation of customer. The Services are published by one bank and all other branches and vendors are using the published services.
* **SOAP** has been used as a protocol to send request and response in the form of XML messages.
* **WSDL** has been used to expose the Web Services. Designed and Developed Oracle Procedure for one-time conversion for Client Demographic and Financial systems.
* Configuration of **WebLogic** server domains, clustering, load balancer and **JMS** queues.
* Extensively worked on Entity beans in the persistence layer, interaction with **Oracle 11g DB.**
* Worked with high volume and complex **PL/SQL** stored procedures and packages using **Oracle SQL.**
* Rational Clear Case is used for the version control, Ant and Maven is used for build script, configured **log4j, .log files.**

**Environment:**

**Agile Model, HTML, JSF, jQuery, JavaScript, AJAX, CSS, Servlet, Struts, Microservices, Docker, AWS, Netflix Eureka, Spring Hystrix, Spring Ribbon, Spring Kafka, Zookeeper, SOAP, WSDL, WebLogic, JMS, Oracle, PL/SQL, log4j**

**Client: State Farm, Bloomington, IL Nov 2010- Apr 2012**

**Role: Java/J2EE Developer**

**Description**:The State Farm hosted enrollment website for premier insurance clients that will allow auser to establish an account that will allow registration of multiple cards to one username andpassword. They will be able to receive the alerts via SMS, email or both when their card is used in acountry that is determined to be outside their home country. The enrollment web service utilizes the in-Control platform to deliver the alerts. In addition, the existing Common Registration Web Service andBank net Bridge services are utilized.

**Responsibilities:**

* Involved in preparation of **functional definition documents** and Involved in the discussions with business users, testing team to finalize the technical design documents.
* Designed and developed the UI using Struts view component **HTML, CSS, JSP, JavaScript, AJAX, JSON.**
* Used **XML/XSLT** for transforming common **XML** format and **SAML** for Single Sign-On.
* Designed configuration **XML Schema** for the application.
* Enhanced the Web Application using **Struts.**
* Wrote Client-side validation using **Struts Validate framework and JavaScript.**
* Roles included maintenance of **database** and ensuring round the clock **service availability, Log Shipping,Clustering and Replication**. Involved in change request implementation using **JAVA/J2EE.**
* Wrote **JSPs, Servlets** and deployed them on **WebLogic Application server.**
* Performed extensive test-driven development-using **JUnit** for unit testing.
* Involved in resolving the bugs that come across during Sprints and System Integration Testing.

**Environment:**

**HTML, CSS, JSP, JavaScript, AJAX, JSON, XML, Struts, J2EE, Servlets, WebLogic Application server, Junit**

**Client: Virtusa Consulting Services-Hyderabad, India July 2009- Oct 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, Object, Class, Collaboration and Sequence Diagrams.
* Created Servlets which route to appropriate EJB components and render retrieved information
* Developed Session Beans to process requests and used Entity Beans to retrieve and update.
* Involved in writing the exception and validation classes using Struts validation rules.
* Developed various EJB components to fulfill the business functionality.
* Used Apache Axis for consuming Web Services and WebSphere for deploying various components.
* Persistence layer was implemented using Hibernate Framework.
* Front-end is designed by using HTML, CSS, JSP, Servlets, JSTL, Ajax and Struts.
* Used JavaScript for page validation and XML with SAX to transfer data between applications.
* Written ANT scripts for building application artifacts.
* Monitored the error logs using Log4J and fixing the problems.
* Wrote PL/SQL stored procedures, Prepared statement and used API.
* Involved in writing and executing stored procedures, functions and triggers for Oracle.
* Used JUnit for unit testing and used GIT for version control.
* Created Unit, Acceptance and Integration Test Documents and Code Review Document.

**Environment:**

**J2EE, SDLC, Rational Rose, Servlets, Struts, EJB, Web Services, Hibernate, HTML, CSS,JSP, JSTL, ANT, Log4J, SQL, Oracle 10g, Junit**.