



Vijay Krishna Kotu

Professional Summary:

- 9 years of experience in all the phases of Software Development Life Cycle (SDLC) including Requirement Analysis, Design, Implementation and Product Testing in both the Web based and Enterprise applications with emphasis on Object Oriented, Java/J2EE and Client Server technologies
- Strong experience with Software methodologies like **Agile, Waterfall and Test-Driven Development**.
- Experienced in UI frame works such as **HTML5, CSS3, Bootstrap, jQuery, Ajax, Google Web Toolkit (GWT), JavaScript, AngularJS, Tag Libraries, and Custom Tags**.
- Experience working with **Java 1.8 Lambdas, Functional Interfaces and integrated Stream API** into the Collections API, to perform bulk operations on collections.
- Expertise in working with Object Oriented Programming (OOP) Concepts like Polymorphism, Inheritance, Abstraction, Encapsulation and WebservicesSOAP (Simple Object Access Protocol), MicroServices RESTful/REST (Representational state transfer).
- Managed Amazon Web Services like **EC2, S3 bucket, ELB, Auto-Scaling, Dynamo DB, Elastic search, Virtual Private Cloud (VPC) through AWS Console and API Integration**.
- Hands on experience with Amazon web services (AWS) and Amazon cloud technologies such as **Amazon EC2 (virtual servers) and Amazon Cloud Watch (monitoring)**.
- Extensive experience working in **spring framework, Struts framework, Object Relational Mapping Hibernate framework and web services**.
- **Excellent experience in implementing Web, WCF and REST services which communicate data in a both XML & JSON**
- Experience using **Spring MVC, Spring Boot, Spring DAO, Spring Data, Spring IOC, Spring Annotations, Spring AOP, Spring Transactions and Spring Security**.
- Strong work experience in application integration and communicating using SOA, Web Services such as **JAX-RPC, JAX-RS, JAX-WS, SOAP, WSDL, XML and RESTFUL web services**.
- Extensive work experience in web technologies like **JSP, Servlets, JavaScript**.
- Extensively worked on developing UI components using **HTML5, CSS3 and JSON** to interact with **Restful web services**
- Experienced in numerous Design Patterns like **Singleton, Factory, Session Facade, MVC, Data Access Object, UML and Enterprise Application Integration**.
- Expert in Core Java with strong understanding of **Collections, Multithreading, Event handling, Exception handling and Generics**.
- Strong Experience in database design using **PL/SQL to write Stored Procedures, Functions, Triggers, Indexers and proficiency in writing complex queries, using Oracle, SQL Server and MySQL**.
- Experience in working with the NoSQL Database like **Cassandra DB and Mongo DB** to manage extremely large data sets.
- Experienced in JMS over messaging to exchange the information in more reliable and asynchronous way in enterprise Applications. Used **Apache Active MQ and Apache Camel**.
- Experience in version control system tools like **GIT, CVS and SVN**.
- Experience in unit testing the applications using **JUnit, TDD Framework**.
- Worked on implementing full life cycle of software development process (SDLC) in using version control tools like **Rational Clear Case, Tortoise SVN, CVS (Concurrent Version System)**.
- Used Spring Framework for Dependency injection and integrated with the Hibernate framework.
- Used Spring Batch to process the CSV files
- Used Spring Batch to process to update the DB column state.
- Hands-on experience working with **Continuous Integration (CI) build-automation** tools such as **Maven, SVN, CVS, Jenkins and Apache Ant**.
- Significant experience in web development tools like **Spring Tool Suite (STS), Eclipse and IntelliJ**.
- Hands on experience with Windows, **UNIX and Linux** Environments.
- Having Experience on Shell Scripting and Deployment of Applications in Server.
- Experience in designing, developing, and deploying J2EE applications on **Web sphere, Web logic and Apache Tomcat** application Servers.
- Excellent written and verbal communication skills, Analytical, Problem Solving skills, strict attention to detail and ability to work independently, lead/work within a team environment.



Technical Skills:

Languages:	Java, J2EE, C++, SQL, PL /SQL
Application Servers:	Apache Tomcat, WebSphere
IDE-s/Text editors:	Eclipse, NetBeans, Visual Studio, Anypoint Studio, Sublime Text, WinSCP, putty
Operating Systems	Windows, Linux
Web Technologies:	HTML, CSS, AJAX, JavaScript, jQuery, Angular, Bootstrap
Middleware tools:	JBoss.
XML Web Services:	XML Schema, SOAP, REST
Frameworks:	Spring MVC, Spring Boot, Spring Cloud, Struts, Hibernate, AngularJS, Angular2, Bootstrap
Databases:	Oracle 11g, SQL Server, MySQL, NoSQL (MongoDB)
Development tools:	Maven, SVN, Git, JIRA
Testing Tools:	Apache JMeter, Soap UI, Junit, Selenium
Scripting languages:	Unix-shell scripting

PROFESSIONAL EXPERIENCE

Amtrak, Washington, D.C

(Sep' 2018 - Present)

Senior Java Developer

RA System (Revenue Accounting system) is a mechanism for transmitting reservation data and automated ticket issuance, exchange, modifications, refund and lift transactions. This system deployed as near real time. The finance business group notified about change made in sales data. Reporting on revenue variance provides the visibility which should help the organization control expenditures. It's re-write of an existing Mainframe application. Currently we are injecting different types of batch files in to RA system through AWS and we generate various output files to inject data to Legacy system.

Responsibilities:

- Developed service using Spring Cloud Function which process data sent Amazon S3 bucket and Amazon Kinesis streams using inbound Lambda which parses data, validates, calculates and stores in PostgreSQL RDS. Out bound Lambda processing generate out files sent to Legacy system.
- Used Java 8 Lambda expressions and Stream API to support functional-style operations on streams of elements.
- Design and develop the processes using multithreading to make it asynchronous.
- Developed Rest Api to processes the data from DB to another Rest Service.
- Created Container's for API's using Docker in LINUX to get deployed in Server.
- Experience in Implementing API's in Java Multi-Threaded Environment
- Follow the best practices in coding like removing unnecessary casting, using generics in HashMap, caching, Collections like sort, comparator, list, set and Design patterns.
- Experience in Micro services development using spring boot and deployment in Pivotal Cloud Foundry (PCF).
- Created solutions for service-to-service security in PCF
- Contributed to the application architecture of several micro-services (PCF/AWS)
- Worked on Java functional programming concepts like Streams, Functional Interfaces, new date time API and lambda expressions.
- JProfiler is used to profile the application (Memory view and CPU view and Thread view are used)
- Involved in developing Angular application using HTML5, CSS3, JavaScript, Bootstrap using Angular6/Angular 8 ,Typescript, Angular-CLI, Node.js CLI tool Node Package manager(NPM).
- Written the JUNIT Test to run the Spring Batches
- Used Angular router and implemented module wide routing and created different forms using Angular data driven and template driven forms and
- Developed Angular Components, Services, and Filters and took part in developing unit test and integration test cases using Jasmine, Karma.



- Used Spring Boot which is radically faster in building cloud Micro Services and develop spring based application with very less configuration.
- Secured the API's by implementing OAuth2 token based authentication/authorization scheme using spring security.
- Developed Micro services & APIs using Spring Cloud, Spring Batch, Spring Boot,
- Design and implementation of different micro services and its Docker files.
- Created and maintained Docker images and Docker containers.
- Configuring the Docker containers and creating Docker files for different environments.
- Involved in batch processing using SpringBatch framework to extract data from database and load into corresponding Loan App tables.
- To send emails to users developed Java API to interact with the Amazon SNS.
- Used AWS Cloud Watch to monitor the application and to store the logging information
- Spring Data JPA used retrieve and update, inserting data in database.
- JSON request/response from UI is processed using Spring Boot, Restful features with micro services Architecture and Spring Data JPA framework is used to save/retrieve the data in the backend
- Used Apache Maven as a build tool for building the Restful web-service

Environment: Java8, lambda expressions, streams, Agile(SCRUM), J2ee, webservices, SpringBoot, Spring DataJPA, Jprofiler, **Angular** 6, Eclipse, GIT/Stash(Bitbucket), Jenkins, Confluence, Spring Boot, Spring Security, XML, GIT, Postman, Spring MVC, JDBC, Mockito, JUnit, Maven, Restful, Log4J, SOA, Micro services, Swagger, Jira, SourceTree, Swagger, Windows, Linux, Amazon S3, AWS Beanstalk, Amazon Lambda, PostgreSQL.

TD Ameritrade; Jersey City, NJ

(Sep' 2016 - Sep' 2018)

Java Developer

Description: GOMS (Generic Order Management System) application is primarily responsible for handling all the trading action on orders beginning at new order creation. GOMS is centralized application for different financial products such as equities, options, fixed income and mutual funds. GOMS keeps track of an orders various transition states, from order creation onwards. Primarily users are financial advisors who creates orders and monitors their order statuses for making meaningful business decisions. GOMS job is collect the events (order transitions) and apply rules according to business logic.

Responsibilities:

- Used Java 1.8 Lambda expressions and Stream API to support functional-style operations on streams of elements.
- Worked on Java functional programming concepts like Streams, Functional Interfaces, new date time API and lambda expressions.
- Used Java 1.8 Lambda expressions and Stream API to support functional-style operations on streams of elements.
- Implemented JMS Listener on MQ, Routing functionalities and invoking corresponding web service using Apache Camel.
- Core Java with Concurrent API is used extensively for parallel processing and chunk processing.
- Apache camel Kafka end point used to publish trade to Apache Kafka.
- Developed component to receive inbound data from different source systems in different formats (fixed length, xml) normalized to Json using Apache Camel Data Format.
- Developed component send formatted (JSON) trade data to Rest Endpoint to capture enriched data. Response from Rest Endpoint publishes to MQ using Apache Camel.
- Involved in developing several Fix message New Order single, Execution, Confirmation.
- Used Angular router and implemented module wide routing and created different forms using Angular data driven and template driven forms.
- Developed Angular Components, Services, and Filters and took part in developing unit test and integration test cases using Jasmine, Karma.
- Used Node.js CLI tool Node Package manager (NPM) to build Angular application.
- Consumed REST services using Angular HTTP and performed various REST Http operations for data retrievals and updates.
- Implemented Cloud capabilities like Centralized Configuration, Load Balancing, and Service-to-Service call using Feign, Service Registry and Discovery using Eureka in Spring Cloud.
- Used Spring Boot which is radically faster in building cloud Micro Services and develop Spring based application with very less configuration.



- Developed Micro services & APIs using Spring Cloud, Spring Security, Spring Boot, and Spring Integration.
- Spring JDBC used retrieve and update, inserting data in oracle database with use of stored procs.
- JSON request/response from UI is processed using Spring Boot, Restful features with micro services Architecture and Spring Data Jpa is used to save/retrieve the data in the backend
- Oracle Coherence used to store Reference Data.
- Used Apache Maven as a build tool for building the Restful web-service

Environment: Agile Methodology, Java 1.8, HTML5, CSS3, JavaScript, Ajax, Angular, Bootstrap, J2EE, Spring (IOC, AOP, MVC, JPA), Spring Boot, Hibernate, Apache Kafka, Apache Camel, Agile, RESTful, JSP, JMS, Oracle, PL/SQL, Maven, Log4j, JUnit, Jenkins, GIT,, JIRA

Bank OF America; Charlotte, NC

(Sep' 2014 - Sep' 2016)

Java Developer

Description: **ATLAS** is a Product of Bank's solution for online **bill payments**. It allows BAC customers to pay their Utility bills using the BAC online and mobile banking applications. Behind the Customer facing interface there are many systems interacting to fulfill the BillPay functionality like BillPay UI, BillPay WebService, Payment Engine, UBD (Universal Biller Directory), **PayMon** (Payments Monitoring Tool), **YCC** (Yodlee Customer Care). **Payment Engine** is a standalone Java Application performing various payment processing tasks in different **Modes ACH, WIRE (SWIFT)**. It is the heart of the BillPay functionality where LCR (least cost routing), Risk and other core business logic is implemented in JAVA and PL/SQL.

Responsibilities:

- Responsible for all stages of design, development, and deployment of applications. Active role in Test Driven Development termed as TDD apart from Agile Software Development.
- Used Multithreading in programming to improve overall performance.
- Designed, analysed and developed the front-end and back-end Servlets, Bootstrap for designing, HTML5, CSS3, AngularJS and AJAX, for developing presentation layer.
- Involved in developing UI pages using AngularJS and calling the Rest API's from backend
- Involved in payment status report for asynchronous exchange of information using JMS.
- Demonstrable experience working in continuous integration and continuous deployment systems (CICD)
- Used spring framework including spring core/IOC, Spring Web, Spring Security.
- Used Jenkins as build management tool for continuous integration process (CICD).
- Configured Hibernate with Spring ORM as part of spring and Hibernate Integration for best results.
- Utilized spring core, AOP and security to build robust business operations with transactional support.
- Worked with IDE as Eclipse Indigo and deployed into Apache Tomcat Web Server & used Maven build tool to achieve more functionality for build process.
- Used Apache camel integration for routing and transforming the data between two Applications using HTTP protocol.
- Used JBoss as the chief enterprise level server while dealing the database activities with Hibernates
- Implementation of data access layer has been cumbersome for a while and this was greatly resolved using Spring JPA through implementation of data access layers there by reducing boiler-plate-code.
- Used Sonar to analyze and measure source code quality.
- Used Git as Version Control System for the application.
- Developed and executed software systems utilizing JavaScript and Groovy.

Environment: HTML5, CSS3, JavaScript, Bootstrap, Agile(SCRUM), AngularJS, AJAX, Hibernate, Spring, Cassandra DB, Spring Batch, Spring Boot, Spring Security, Servlet, XML, GIT, JSP, Postman, Spring MVC, JDBC, Mockito, JUnit, Maven, IBM WebSphere, Apache Camel, Restful, Log4J, SOA, Micro services, Swagger, Weblogic, JIRA, Spring Security, Jenkins and STS.

Polaris Software, Hyderabad

(Oct '2012 - July' 2014)

Client: AIG

Java Developer

Description: **Under Writing System** decides how much coverage the client should receive, how much they should pay for it, or whether even to accept the risk and insure them. **Underwriting** involves measuring risk exposure and determining the quote that needs to be charged to insure that risk.

Responsibilities:

- Gathered required information for the project and involved in analysis phase.



- Created UML class and sequence diagrams using Rational rose.
- Developed java server pages, Action classes and EJB's for user transactions.
- Designed Java Servlets and objects using J2EE Standards.
- Mapping of the servlet in Deployment Descriptor (XML).
- Used Entity beans as the model to represent the persistent data and interacted with Oracle data base as per MVC Architecture.
- Used HTML, JSP, JSP tag libraries and struts tiles to develop presentation tier.
- Involved in efficient using of multithreading concept for improving CPU time.
- Used JDBC calls in the Enterprise Java Beans to access Oracle Database.
- Used JDBC to interact with Oracle data base for storage and retrieval of information.
- Involved in coding for JUnit test cases, ANT for building the application.
- Developed web pages using Struts, JSP, Servlets, HTML and JavaScript.
- Designed and developed Service layer using Struts framework.
- Involved in designing and implementation of MVC design pattern using Struts framework for Web-tier.
- Developed presentation layer using struts tag libraries like logic, html, bean, etc in JSP pages.
- Developed web application using JSP, Struts Action classes and Struts Forms.

Environment: Core Java, J2EE, Servlets, Multithreading, JSP, Struts 1.2, EJB, JMS, UML, Rational Rose2000, MQ series,, Oracle 8i, Weblogic 8.1, HTML, Java script, Junit, ANT, XML.

Knoah Soft Solutions- Hyderabad

(July' 2011- Oct' 2012)

Description: Izmo is a firm working on artificial intelligence related projects. This project was to build a website for the continuing education of the athletic training students and also for certified athletic trainers, in which they can study the online courses, read the health tips articles, view streaming videos, take online tests and print certificates.

Responsibilities:

- Involved in Requirement Analysis. Preparing Requirement Analysis Document.
- Involved in preparing different Artifacts HLD,LLD using Activity Diagram, Sequence Diagram, Class Diagrams.
- Involved writing code for Request Processor class to extend the functionality of struts Controller.
- Applied patterns like Session Facade, Service Locator, Front Controller, Abstract Factory, Factory method, Singleton, Data Transfer Object etc
- Involved in writing code for Action Class, Business Delegate, Session Bean, Entity Bean and DAO.
- Developed JSP's with STRUTS custom tags and implemented JavaScript validation of data.
- Developed programs for accessing the database using JDBC thin driver to execute queries, prepared statements, Stored Procedures and to manipulate the data in the database.
- Developed the application using J2EE architecture.
- Involved in developing JSP forms.
- Designed and developed web pages using HTML and JSP.
- Developed Java End Point Service, EJB End Point Service, Secure Webservices with RPC, Document Style and of Using Axis 1.3 and JBOSS.

Environment: UML, Java, J2ee1.4, Struts, Axis 1.3, Open DTP Connector, EJB2.0, JSP, Webservices, Eclipse 3.2 PDE JBOSS 4.0.2/, Jboss 4.0.5, JavaScript, Eclipse with Lombok plug-in, Rational Rose, Jmeter, VSS, Oracle

Academic Details:

Bachelors Computer Science of Engineering

Jawaharlal Nehru Technological University

Certified Details:

AWS Certified Solutions Architect - Associate

Validation Number EW13VXSB21F4QNWW

Validate at: <http://aws.amazon.com/verification>

