**MANOJ MADDURI**

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# **PROFESSIONAL SUMMARY**

Over 8+ years of expertise in Core Java and J2EE, specializing in robust back-end development, performance optimization, and cross-platform software solutions. Proficient in Java-based system integration, multithreading, and advanced Java features such as streams and lambda expressions to enhance application efficiency and scalability.

* Experience in using Kibana and Splunk for dashboard for log data and creating charts for analysis. Proficient in implementing ELK (elastic search, Logstash, Kibana) for searching and server-side data processing pipeline to ingest data from multiple sources simultaneously.
* Knowledge in working with continuous deployment using Heroku and Jenkins.
* Hands on experience in publisher and subscriber model with queues (JMS with active MQS, IBMQ). Implemented a metrics collection mechanism for the server by utilizing Apache Kafka to stream server-side events.
* Created external tables with partitions using Hive, AWS Athena and Redshift. Design, reconstruct, and modify tracks into the ATLAS software framework, Athena.
* Create a Java Lambda that watches an AWS S3 bucket, load the data to the Redshift and send a message using RESTful web services if the file has errors.
* Good experience with automated Java based logging frameworks like log4J, sl4J, log-common.
* Experience in developing using RESTful Web services using JAX-RS API and Jersey framework. Developed Restful services with JAX-RS with Spring REST.
* Experience in SOAP using JAX-WS API ad Apache CXF framework and automated the documentation using Swagger and WSDL.
* Designed and implemented full-stack applications integrating generative AI models (such as GPT, GANs, or VAEs) for content generation, recommendation systems, and user interaction.
* Experience in developing various Web applications using Monolithic architecture using the technologies like Servlets, JSP, Structs, JSF, Spring I/O, Spring REST, Spring Security.
* Expertise in working with JAVA8 features like Functional Interfaces, Lambda functions, Stream API, Time API, Transaction Management, Exception Handling, Collection API.
* Proficient in implementation of spring frameworks like Spring MVC, Spring IOC/DI, Spring REST, Spring AOP, Spring Transaction Management, Spring Data, Spring DAO, Spring Batch.
* Good knowledge of configuration management in Spring cloud using Zookeeper. Expertise in using Spring Cloud-Netflix OSS stack for micro services deployment and auto configurations like Ribbon for client-side Load balancing.
* Expertise in implementing Spring JTA for transaction management and Spring JDBC to interact with Databases.
* Strong Experience in working with JAVA based testing frameworks like Junit, Selenium, TestNG, Mockito, Spock, and Cucumber, Power mock, Mock Mvc, etc.
* Experience in working with various version controlling tools like Git, SVN, Bit buckets, TFS, CVS and different Project management tools like JIRA, Rally, Microsoft Project.
* Led the development of end-to-end AI-driven applications, incorporating backend (Node.js, Python/Django) and frontend (React, Angular, Vue.js) technologies.
* Strong experience in working with Relational databases like Oracle, MySQL, Microsoft SQL Server, PostgreSQL, IBM DB2 etc. NoSQL databases like MongoDB, Couch DB, Gem Fire, Redis, HBase etc.
* Great knowledge of writing PL/SQL scripts for executing more than one query at a time. Proficient in creating views for tables, writing stored procedures, writing Triggers.
* Experience in using Mongoose connectors for mapping pure JavaScript objects to the MongoDB. Great understanding of Apache Cassandra driver for Node Js for Parallel Execution, request pipelining.
* Experience in developing User Interface with different technologies like HTML5, CSS3, Java Script. Developed applications with AJAX for handling asynchronous calls that follows W3C Web standards.
* Hands-on experience working with NodeJS platform and using NPM for library management and BOWER for dependency management.
* Experience in using JavaScript testing frameworks like Karma, Jasmine, Protractor for Angular and Mocha and chai for React Js and Node JS.
* Strong working knowledge on deploying the pivotal cloud foundry to deploy PAAS (Platform as a service) , IAAS (Infrastructure as a service) and to run own applications.
* Skilled in Python with using new tools and technical developments (libraries used: libraries - Beautiful Soup, Jasy, numpy, Scipy, matplotlib, Pickle, PySide, Pandas data frame, network , urllib2, Py chart, High charts) to drive improvements throughout entire SDLC.
* Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing Python.
* Very strong experience writing API's/ and Web Services in Python.
* Experience in Docker Container to address every application across the hybrid cloud and Docker for better collaboration and innovation.
* Good knowledge of implementing MVC architecture on client side using AngularJS, React with redux, React with flux, Backbone JS, Ext JS, knockout JS.
* Expertise in implementing MVVM architecture on client side using Angular and above versions with typescript 2.7.
* Expertise in working with Hapi.JS to build reusable application logic by avoiding spending time on building infrastructure.
* Strong knowledge in working with CloudFormation Templates, EC2 instance types, Inbound/Outbound security groups, S3 buckets, IAM policies, CloudWatch, Lambda, Route53, subnets, VPC, GIT, Bitbucket and Bamboo to spin up EMR clusters with necessary requirements.
* Extensive experience in Coherence caching, including distributed data grids, partitioning, replication, and near-cache strategies to optimize application performance.
* Strong expertise in distributed messaging architectures, leveraging JMS, Apache Kafka, and Coherence messaging for real-time, event-driven applications.
* Deep understanding of caching strategies and performance tuning using Oracle Coherence, Grid Gain, and Redis, ensuring high availability and fault tolerance.
* Proficient in integrating Coherence with Spring Boot microservices, optimizing cache management with Spring Caching, write-behind, and expiration policies.
* Hands-on experience in building scalable Coherence clusters, configuring backing maps, federation services, and distributed computations to improve efficiency.
* Expert in Grid Gain in-memory computing, utilizing compute grids, affinity colocation, and streaming APIs to process large-scale data workloads.
* Proven ability to design and implement high-performance caching layers, reducing database load by 40% and enhancing query performance.
* Good knowledge of Working on cloud Amazon Web Services (Amazon EC2, Amazon S3, Amazon simple DB, Amazon Elastic Load Balancing, Amazon SQS, Amazon EBS and Amazon cloud front)
* Expertise knowledge of creating instances using Amazon EC2 and using lambda server less programming. Proficient in using Aws Elastic Beanstalk for handling capacity provisioning and monitoring application.
* Deployed the Zero Down Deployment using Kubernetes orchestration service application. Automated the deployment process by integrating code repository using build pipe line Jenkins, Bamboo and Go CD for continuous deployment.

**TECHNICAL SKILLS**

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| **Programming Languages** | C, C++, Java, PL/SQL, Python |
| **JavaScript Frameworks** | Angular JS, Angular 6+, jQuery, Node.js, D3.js, Backbone.js, React.js, StencilJS, Express.js, Ember.js, Handlebars.JS,Next.js |
| **Java/J2EE Technologies** | Servlets, Spring, EJB, JPA, JTA, JDBC, JSP, Thyme leaf, JSTL, Java 8 |
| **Frameworks** | Struts 2.0/1.0, Hibernate 4.x/3.x, Spring 3.0, Spring Batch, Spring Security, Spring AOP, Spring Core, JSF, iBATIS, Spring IOC, Camunda BPM,Glue |
| **Web Technologies** | HTML, HTML5, CSS/CSS3, AJAX, jQuery, Bootstrap, XML, Grunt, Gulp, JSON. |
| **Database** | SQL Server, MySQL, Oracle, Mongo DB, DB2,Jasper |
| **Cloud Technologies** | Amazon EC2, S3, simple DB, Elastic Load Balancing, SQS, EBS, cloud front,GCP, EKS and PCF. |
| **Web Services** | XSD, WSDL, Apache Axis, SOAP, Restful, GraphQL, JAX RS, JAX WS |
| **Messaging** | JMS (Java Message Service), IBM MQ, Apache Active MQ, Apache Kafka |
| **Web Servers** | Oracle WebLogic 10.x/9.x, IBM WebSphere 8.x/6.x, Apache Tomcat 8.0/7.x/6.x |
| **Application Servers** | Apache Tomcat, WebLogic, IBM WebSphere, JBoss |
| **Methodologies** | Agile, Waterfall, OOAD, SCRUM |
| **Testing Tools** | JUnit, Mockito, Jasmine, Playwright, Karma, Mocha, Chai, Selenium |
| **Version Control** | SVN, CVS, GIT,GITLAB |
| **Build Tools** | Maven, Gradle, ANT |
| **IDEs** | Eclipse IDE, RAD 6.0/7.0, IntelliJ, IDEA, Spring Tool Suite (STS) |
| **Operating Systems** | Windows, Linux and UNIX |
| **Software** | Visual Studio, Rational Rose and Microsoft Office |

**PROFESSIONAL EXPERIENCE**

## **Client: Morgan Stanley, United States --------------01/2023 – present**

**Full Stack Java Developer**

**Responsibilities:**

* Developed a Coherence-based distributed caching framework to store frequently accessed data, improving system response times by 50%.
* Implemented Coherence messaging for event-driven microservices, enhancing real-time data synchronization across distributed systems.
* Optimized Coherence clusters by fine-tuning cache partitioning, eviction policies, and serialization mechanisms, improving overall application throughput.
* Integrated Coherence cache with Kafka-based data pipelines, ensuring low-latency messaging and event-driven processing.
* Enhanced caching resilience by implementing Coherence federation, enabling seamless data replication across multi-region deployments.
* Utilized Grid Gain's compute grid capabilities, enabling distributed parallel processing for computationally intensive tasks.
* Implemented Redis-based caching solutions for session management, leaderboard systems, and analytics dashboards, reducing API response latency.
* Designed and deployed Coherence REST APIs, providing real-time access to distributed cache data for external applications.
* Led performance tuning of Coherence nodes, reducing memory footprint and enhancing cache hit ratios.
* Utilized Coherence event listeners to enable real-time monitoring and cache invalidation strategies.
* Successfully migrated legacy code from Angular 5 to Angular 6 using ng update and ng add commands, ensuring compatibility with the latest Angular features and improvements.
* Developed custom logging microservices using Angular 6, Node.js, and Oracle DB, providing comprehensive tracking and auditing of user actions on files within the application.
* Implemented secure authentication mechanisms using Angular's HTTP interceptors and HTTP Client, enhancing application security and user privacy.
* Deployed AI models in production using cloud platforms (AWS, GCP, Azure) to scale and manage applications serving generative AI results in real time.
* Experience in working with Docker, Kubernetes, ECS container services and successfully deployed the images in the cloud environment for managing Application.
* Built and Deployed Docker images on AWS ECS and automated the CI-CD pipeline.
* Configured the AWS ALB to route the traffic from target group to right targets on AWS ECS.
* Implemented declarative caching using Spring annotations to improve application performance.
* Implemented SSL/TLS encryption for secure communication within the GemFire cluster.
* Orchestrated ETL processes using Node.js, OAuth 2.0 protocol, and request module, ensuring seamless data extraction, transformation, and loading across different data sources.
* Engineered reusable custom elements using Angular Elements in Angular 6, promoting code reusability and maintainability.
* Demonstrated mastery of Java 8 features, including lambda expressions, Stream API, and functional interfaces, to write efficient and maintainable code.
* Leveraged Java 8's Stream API to streamline complex data processing tasks, resulting in code that is both concise and highly performant.
* Created interactive AI features such as chatbots, content creation tools, and recommendation engines that enhance user experience with generative AI
* Involved in the development of front end of the application using Python 2.7, HTML5, CSS3, AJAX, JSON and JQuery.
* Involved in Developing a Restful API'S service using Python Flask framework.
* Developed custom web components using StencilJS, enhancing application modularity and reusability across multiple projects.
* Adoption of StencilJS in the frontend development team, standardizing the creation of UI components that are compliant with Web Components standards.
* Deployed the project into Jenkins using SVN version control system.
* Part of team implementing REST API's in Python using micro-framework like Flask with SQL Alchemy.
* Developed remote integration with third party platforms by using RESTful web services.
* Wrote Python code embedded with JSON and XML to produce HTTP GET request, parsing HTML data from websites.
* Created Python scripts to automate repetitive tasks, enhancing operational efficiency.
* Wrote unit tests and conducted thorough testing of Python code to identify and resolve bugs and issues.
* Implemented lambda expressions to improve code readability and reduce boilerplate code, enhancing the maintainability of event handling and callbacks.
* Collaborated in Agile environments, employing JIRA for task assignment, bug tracking, and sprint planning, resulting in efficient project execution and on-time deliverables.
* Employed GitLab for version control and implemented merge request policies to manage code branches for different environments.
* Implemented end-to-end automated testing frameworks using Playwright for multiple web applications, ensuring high reliability and robustness.
* Developed automated deployment scripts using Bash shell scripting to streamline the deployment process, reducing manual errors and deployment time by 30%.
* Created custom shell scripts to perform routine system administration tasks, such as log rotation, database backups, and log analysis, improving system stability and performance.
* Utilized NGINX as a reverse proxy to efficiently direct requests to different instances of App Service, enhancing application performance and scalability.

**Environment:** Java, Apache Kafka, Splunk, Angular 6, Node.js, Oracle DB, OAuth 2.0, AWS, AWS Load Balancer, EC2, Amazon Dynamo DB, Swagger, Node-JS, Web pack, ECMA6, Karma and Jasmine, Spring 4.x, Spring Boot, Microservices architecture, Docker, Cassandra DB, Kubernetes

## **Client: UHG, Minnetonka, Minnesota--------------01/2022 – 12/2022**

**Full Stack Java Developer**

**Responsibilities:**

* Creating webpages according to client guidelines and standards throughout the development and maintenance of the website using HTML, JavaScript, Node JS, React JS, Redux
* Responsible for Style, look and feel of the web page with SASS that extends CSS with dynamic behavior such as variables, mixing, operations, and functions.
* Developed and designed application using React.js and JSP which includes HTML5, CSS3, JavaScript, Node.js.
* Responsible for creating efficient design and developing User Interaction screens / SPA using HTML5, CSS3, Bootstrap, JavaScript, Node.JS, Express.JS and React.JS
* Creating cross-browser compatible and standards-compliant CSS-based page layouts.
* Used Ajax, JSON to send the request to the server to check the functionality of the websites.
* Maintained STATES in the store and dispatched the ACTIONS using Redux.
* Worked with Redux Middleware Redux-Sagas while working with the CRUD operations like GET, POST, PUT and DELETE methods.
* Design and Coding of various JAVA, J2EE modules like Spring Boot, Spring MVC, Spring Rest, Hibernate, JPA, Couch base.
* Developed user interface by using the React JS, Flux/Redux for SPA development.
* Used React JS to create custom components for data manipulations and to display data in company standard format.
* Developed Coherence caching layers to optimize financial transaction processing, reducing database calls by 60%.
* Implemented high-speed messaging using Coherence and IBM MQ, ensuring low-latency financial data synchronization.
* Designed and managed a Redis-based caching mechanism to improve the performance of fraud detection systems.
* Integrated Coherence with Apache Kafka, enabling real-time data streaming for transaction monitoring.
* Optimized Grid Gain caching configurations, enhancing query execution performance by 45%.
* Involved in Designing and deploying. Used IBM WebSphere Portal Server to deliver highly-personalized social experience to the customers. Responsible for table designs like attributes required, distribution key and sort key and creating DDL in Redshift
* Played a key role in developing and maintaining mission-critical microservices in Go, supporting high-volume data processing and real-time analytics.
* Designed and implemented RESTful APIs to enable seamless communication between microservices, resulting in improved system scalability and performance.
* Utilized go routines and channels for concurrent programming, enhancing the application's responsiveness and efficiency under heavy loads.
* Wrote Python code to simplify lists in Python with list comprehension and Python OOP. Worked with POSTMAN for API testing. Developed REST APIs, and created User Model for application.
* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash
* Designing solutions on Azure cloud options Clear concepts of Azure Service Management (ASM - Classic) model vs newer (ARM - Azure Resource Management) model and experiencing in setting up RBAC roles (OOB) and Custom RBAC roles to Subscription level, or Resource Manager Level to manage Azure Resources.
* Profound Knowledge in developing HTML5 pages using DIV layout, Web Accessibility and Web Usability. Used Maven as a build tool. Implemented Java to XML binding.
* Collaborated with the UX/UI design team to implement responsive, cross-browser compatible web components using StencilJS, which improved the aesthetic consistency and functionality of the user interface.
* Hands on experience on Azure VPN-Point to Site, Virtual networks, Azure Custom security, end point security and firewall.
* Development web service using Windows Communication Foundation and .Net to receive and process XML files and deploy on Cloud Service on Microsoft Azure.
* Developed views and templates with Python and Django's view controller and template language to create a user-friendly website interface.
* Worked in Cloud based NMS application which monitors the CPU/Memory parameters of Virtual machines.
* Optimized CI/CD pipelines by integrating Playwright tests, achieving faster development cycles and earlier detection of critical issues.
* Performed thorough integration testing on Java test codes, validating the seamless interaction of various components and ensuring robust functionality.
* By effectively combining technical prowess with collaborative teamwork, I played an integral role in delivering high-quality software solutions that aligned with the stringent requirements and standards of the Health industry.

**Environment:** HTML5, CSS3, JavaScript, React JS, React-Native, Redux, ES6, Express.js, Node.js, JSON, Mongo, Web Sockets, Health Industry Standards.

## **Client: Discover Bank, Hyderabad, India --------------05/2018 – 01/2021**

**Full Stack Java Developer**

## **Responsibilities:**

* Implemented a Java-based automation framework using Selenium Web-Driver, integrating JUnit and Java assertions to enhance testing processes and ensure robust application performance for multiple platforms and browsers testing.
* Implemented real-time event-driven integrations using MuleSoft's event processing and pub/sub patterns.
* Managed high-volume data processing and ensured data consistency across systems.
* Project code build is done using MAVEN tool.
* Implemented data replication mechanisms to ensure high availability and fault tolerance within the distributed cache.
* Developed and maintained relationships with correspondent banks and financial institutions for SWIFT transactions.
* Used backbone.js as Model, Widgets as Controller and jQuery template as View.
* Responsible for Development of Web page using HTML5, JavaScript, jQuery, React.js, Immutable JS, CSS, SASS/SCSS including Ajax controls and JSON.
* Used Babel as a transpiler, WebPack as the module bundler in React.js and Redux.
* Worked in React JS for creating interactive UI's using One-way data flow, Virtual DOM, JSX, React concepts.
* Developed RESTful Services and Web Service Clients (JAX-RS or JAX-WS) using jersey framework with data representation in different formats such as XML and JSON.
* Used props, states, keys, refs in React.js to build the UI components.
* Participated in front end development using JSF 2.0, JavaScript, HTML 5, CSS 3.0.
* Extensively used CSS and Bootstrap for styling the HTML elements.
* Developed dynamic web pages using HTML5, CSS3, Bootstrap, Less, CSS3 (SASS) and AJAX.
* Used JQuery for view rendering of the web pages.
* Implemented second level cache using Oracle Coherence for IBatis.
* Worked extensively with persistence context (JPA) implemented by IBatis.
* Designed, configured and deployed Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack (Including EC2, S3).
* Conducted regular audits and reconciliations of ACH and SWIFT transactions to identify discrepancies and ensure accuracy.
* Integrated App Dynamics APM with AWS services and monitored the EC2 instances Banking on APP Dynamics.
* Gulp used for modification of JavaScript files and for monitoring the application.
* Developed a set of the application functionality using CRUD (Create, read, update, delete) features of backbone.js.
* Developed SOAP services with JAX-WS using Apache CXF framework with data representation in XML format.
* Worked with creating WSDL Documentation to act as an agreement between producer and consumer of the Web service.
* Instrumental in the creation of a web application that significantly enhanced the loan application process for military personnel. The application's user-centric design and seamless functionality contributed to improved customer experience and operational efficiency.
* Involved in migrating code from SOAP to RESTful services.
* Written IBatis Criteria queries for data retrievals and have performed the ORM mappings to map java entities to database tables.
* Written Mockito test scripts to automate the unit testing process.
* Worked with Jenkins for Continuous Integration and Continuous Deployment (CI/CD).
* Worked on Docker. Creating docker images and configurations using Docker file, worked with docker cli to build, pull and push images to Docker registry. Created a Docker hub which allows us to link our code repositories.

**Environment:** JAVA, J2EE, Core Java, JSF, AJAX, JavaScript, Apache CXF, Rest Service, Jax-RS, WSDL, JQuery, Karma and jasmine, Multi-Threading, AWS, Jquery, HTML5, CSS3, Ajax, ORACLE, IBatis, Docker, Mockito.

## **Client: NISUM, Hyderabad, India --------------01/2016 – 04/2018**

**Java Developer**

## **Responsibilities:**

* Configured Struts-config.xml, Tiles-def.xml, and various properties files provided by Struts Framework for the implementation module.
* Extensively used the Struts tag libraries (Bean Tags, Logic Tags, HTML Tags, etc.) and Custom tag libraries.
* Spearheaded the development of scalable web applications leveraging Core Java with Struts and Spring frameworks, focusing on Java’s exception handling and JDBC to enhance system stability and data integrity.
* Experience in installing, configuring, and deploying applications on Web Logic Server.
* Developed a DAO pattern to retrieve the data from the database.
* We kept up the bean life cycle by utilizing Spring IOC, which keeps session information about beans.
* Implemented responsive web-based applications using HTML5, CSS3, JavaScript, jQuery.
* Developed SCM by using the JSP/HTML for each user interface. Servlets standard validations are used as the controllers for business logic and using JDBC, XML parsing techniques using MVC.
* Designed a mailing application to send notifications to the Oracle users for intimating to start the following workflow.
* Used Multithreading concept to post data from files to tables involving the transformation of files from one format to another.
* Worked with Log4J to capture the log that includes runtime exceptions
* Implemented IBM WebSphere Application Server to deploy the application
* Deployed application on the Client Linux server.
* Used ANT build tool for compiling and generating war files.

**Environment:** Core Java, J2EE, JSP, HTML, MVC, Servlets, Struts, JMS, MDB, EJB3.1, JUnit, PL/SQL, DAO, Web Logic Server, Ant, SOAP, JAX-WS, WSDL, Junit, SQL.