SAI KRISHNA MADALA

Sr. Java Full Stack Developer

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Professional Summary:

- **10+ years** of experience in scalable applications in a dynamic environment using **Java/J2EE Technologies, Spring Frameworks, Amazon Cloud Services (AWS) and Hibernate**.
- Strong experience in all phases of **Software Development Life Cycle (SDLC)** including requirements gathering, analysis, design development, testing, implementation and support.
- Experience working with **Agile (SCRUM), Waterfall and TDD** improvement methodologies.
- Experience on design, development and implementation of Client/Server & 3-tier architecture applications.
- Experience in applying best **Design Patterns and Strategies** to enormous business applications to diminish tight coupling, enhance execution, developing and testing.
- Expertise in utilization of **Java 17/11/8**, J2EE packages, and associated technologies such as Spring, Hibernate, EJB, JNDI, JDBC, JMS, JSP, Servlets, JSF, and SOAP/Rest Web Services.
- Good experience in building flexible, reliable, efficient and secured Enterprise and Web-based applications using **Spring MVC, Spring Boot and Spring Web Flow frameworks**.
- Experience working on **Hibernate** for mapping the Java objects to relational database and SQL queries to fetch the data the data, insert and update the data from the database.
- Experience using Hibernate for mapping Java classes with database and using Criteria API and **Hibernate Query Language (HQL)**.
- Hands on experience working with **Model View Controller (MVC)** design for web improvement utilizing JSF, Struts and Spring MVC, JSP, JavaBeans and Servlets.
- Experience in designing, configuring and managing public/private cloud infrastructures utilizing **Amazon Web Services (AWS)** including EC2, S3, Lambda, IAM, VPC, API Gateway, Elastic Load Balancing (ELB), EBS, Autoscaling, SQS, SNS, Elastic Container Service (Docker Container), CloudFormation, CloudFront and CloudWatch.
- Expertise in implementing Docker based Continues Integration and Deployment framework.
- Hands on experience with **Kubernetes and Docker Swarm**.
- Experience in developing and implementing continuous deployment code; experience with CI/CD pipelines and **DevOps methodologies**.
- Experience in using **Jenkins** for Continuous Integration and Continuous Deployments (CI/CD) on to the Servers.
- Good experience in Source Code Management, creating branches, versioning, tagging, and managing Repositories using **Git, GitHub, GitLab, BitBucket and SVN**.
- Experience in using **Maven, Ant** build tool configuration for automation of building processes.
- Experience in designing and building **dynamic and user interactive websites** using HTML5, CSS3, Ajax, JavaScript, AngularJS, ReactJS, NodeJS, Bootstrap and JQuery.
- Hands on experience in using Databases such as **Oracle, MySQL and SQL Server** and proficient in Database programming using JDBC and SQL.
- Good experience in installing, configuring and deploying Linux/Unix/Windows-based **Web/Application Servers** like Tomcat, WebLogic, JBoss and WebSphere.
- Strong experience in development of **Restful API** and **SOAP** based Web Services and Clients.
- Experience with **Web Services** using **SOAP, UDDI, WSDL, Rest** and implementation using **Apache Axis** and **Jersey**.
- Experience working with Messaging Queues such as **Apache Kafka, ActiveMQ and RabbitMQ**.
- Hands on experience with Integrated Development Environments (IDEs) tools like **Spring Tool Suite (STS), Eclipse and IntelliJ** for Java/J2EE application development.
- Expert in performing unit testing using **Junit and Mockito** aiding test driven development (TDD) in some scenarios.
- Experience in using **Log4j** to capture the log that includes runtime exception and for logging info which is useful for debugging and experience in using **Jira** for defect management and to keep track of bugs and issues.
- Effective team player and excellent communication skills with insight to determine priorities, schedule work and meet critical deadlines.
- Implemented **Kafka**-based **messaging systems** to enable real-time data processing, ensuring high throughput and low latency for critical applications.
- Configured **Kafka clusters** and optimized configurations for **performance**, **reliability**, and **data consistency,** resulting in improved system stability and efficiency.

- Designed and developed **Kafka** producers and **consumers** to facilitate seamless communication between **microservices**, enhancing system scalability and fault tolerance.
- Spearheaded the migration of monolithic applications to a **microservices** architecture, enhancing scalability and resilience while reducing downtime by **30%**.
- Designed and implemented **RESTful APIs** for **microservices**, ensuring seamless communication between distributed components and improving system interoperability.
- Implemented **containerization** using **Docker** and orchestration with **Kubernetes**, streamlining deployment processes and reducing deployment time by 50%.
- Monitored **Google Cloud services** using Google Cloud Monitoring and tracked application logs through **Google Cloud Logging.**
- Executed a smooth migration of applications to the Google Cloud environment, harnessing the power of **Google Cloud Platform (GCP)** services such as Compute Engine and Cloud Storage.
- Established Cloud Storage buckets on **GCP** to store diverse content, encompassing **HTML** pages, images, **CSS** files, and script files, all seamlessly accessible to Compute Engine instances.
- Proficient in deploying, managing, and maintaining cloud infrastructure on **Microsoft Azure**, including **virtual machines**, **storage accounts**, and networking components.
- Experienced in configuring and monitoring Azure resources using tools like **Azure Monitor, Azure Log Analytics, and Azure Application** Insights to ensure optimal performance and reliability.
- Knowledgeable in implementing security best practices on **Azure**, including role-based access control (**RBAC**), network security groups (**NSGs**), and A**zure Key Vault** for safeguarding sensitive data and resources.

Technical Skills:

Languages	Java 17/11/8, JavaScript, C, C++, XML, Shell Scripting
J2EE Technologies	Core Java, EJB, JNDI, JDBC, JMS, JSP, Servlets, JSF, JSTL
Java Frameworks	Spring, Hibernate
Web Technologies	HTML5, CSS3, Ajax, JavaScript, AngularJS, ReactJS, NodeJS, Bootstrap, JQuery
AWS Cloud Services	Amazon EC2, S3, Lambda, IAM, VPC, ELB, EBS, Autoscaling, SQS, SNS, ECS (Docker Container), CloudFormation, CloudFront and CloudWatch
Source Code Management Tools	Git, GitHub, GitLab, SVN, BitBucket
CI-CD Tools/Build Tools	Jenkins, Maven, Ant
Web/Application Servers	Tomcat, WebLogic, JBoss and WebSphere
Messaging Queues	Apache Kafka, AWS SQS/SNS, ActiveMQ, RabbitMQ, JMS
IDEs	Spring Tool Suite (STS), Eclipse, IntelliJ
Databases	Oracle, MySQL, SQL Server
Operating Systems	Windows, Linux, Unix
Testing Frameworks	Junit, Mockito
Design Methodologies	Agile/Scrum, Waterfall, TDD

Education Details

Masters in

Computer Science from Auburn University at Montgomery in 2014, Montgomery, Alabama.

Bachelor of Technology

Computer Science from Sreyas Institute of Engineering & Technology 2012, India.

Professional Experience:

Client: Barclays, Whippany, New Jersey **Jan 2021 – Till date**
Sr. Full Stack Java Developer
Responsibilities:

- Worked as a part of **Microservices team** to develop and deliver **Maven projects** to deploy on **Jenkins** and also involved in managing **Docker containers** in **Kubernetes**.
- Used **Spring Boot, Spring Batch** for building **cloud Microservices** quickly and develop Spring based applications
- Built servers using **AWS** importing volumes, launching EC2, creating security groups, Autoscaling, load balancers, SES and SNS in the defined Virtual Private Connection (VPC).

- Created **S3 buckets** for **EC2 instances** to store all content including HTML pages, images, CSS files and script files.
- Used **AWS Beanstalk** for deploying, scaling web applications and services developed with **Java 17**.
- Migrated application to Cloud environment using **Amazon Web Services (AWS)** – EC2, S3 and various services of AWS.
- Worked with **Docker** to improve Continuous Delivery (CD) framework to streamline releases.
- Worked with container based deployments using **Docker, Docker images, Docker HUB and Docker registries**.
- Used **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as **Pods**.
- Used **GIT** as the central repository of all the modules.
- Used **Maven** as build tool automating the building, testing, publishing and deployment loading all the dependencies.
- Replaced Java Messaging Service (JMS) calls with **AWS SQS** and used AWS SDK to connect with Amazon SQS for bulk emails processing.
- Combined **Kafka**'s real-time data streams, the cloud notifications of AWS, and other data sources, including email, FTP, webhooks, and flat files such as CSVs.
- Setup **AWS Oracle RDS** for new project, used data pump to migrate data to Relational Database Services (RDS).
- Utilized Spring framework including **Spring Core/IoC, Spring Boot, Spring Web Flow and Spring Security**.
- Implemented the Security configuration and authentication of service using **API Gateway, JWT and OAuth**.
- Implemented **Object-Relation Mapping (ORM)** in the persistence layer using **Hibernate** framework. Extensively used DAO patterns, including mapping DAO objects, configure file and classes to interact with database.
- Built backend **REST API** with **NodeJS, ReactJS** and implemented modules into NodeJS to integrate with designs and requirement.
- Used **Apache Tomcat** as an application server to deploy various components of application.
- Used **Amazon CloudWatch** to monitor AWS Services and Amazon CloudWatch logs to monitor application.
- Worked on **Spring Tool Suite (STS)** IDE for application development.
- Involved in testing, fixing bugs, code review, troubleshooting technical problems and analysis of performance issues
- Performed unit and integration testing using **Junit** and **Mockito** frameworks.
- Used **JIRA** for defect management and to keep track of bugs and issues.

Environment: Java 17, Amazon Web Services (AWS), Spring Frameworks, Hibernate, Jenkins, Maven, GIT, Docker, Kubernetes, Apache Kafka, REST API, OAuth, HTML5, CSS3, JavaScript, ReactJS, NodeJS, Apache Tomcat, Oracle, Spring Tool Suite (STS). Junit. Mockito, Jira, Agile

Client: American First Credit Union, Salt Lake, Utah **Nov 2017 – Jan 2021**
Sr. Java Full Stack Developer
Responsibilities:

- Utilized **Java 11, J2EE framework, Core Java** and **Spring API** to develop, test, and deploy business logic using **Agile**.
- Designed and developed various modules of the application with J2EE design architecture and frameworks like **Spring MVC architecture** and **Spring Bean Factory** using **IOC, AOP concepts**.
- Worked on infrastructure development on **AWS** by employing services such as EC2, RDS, Cloud Front, Cloud Watch and VPC, etc.
- Managed the multi-tier and multi-region architecture using **AWS CloudFormation**.
- Built scripts on AWS Cloud for scheduling EC2 auto scaling load balancer with **Java SDK**.
- Launched Amazon **EC2 Cloud Instances** using Amazon Web Services (Linux) and configured launched instances with respect to specific applications.
- Installed application on AWS EC2 instances and configured the storage on **S3 buckets**.
- Designed and actualized application utilizing **Spring Boot, Spring MVC, Spring IOC, Spring AOP, Spring Transactions, Spring JDBC**.
- Implemented Batch employments utilizing **Spring Batch** made different thing peruses, thing essayists and thing processors.
- Utilized **Spring Core** for concept of Inversion of Control (IoC) and implemented using Dependency Injection.
- Implemented the application using **Spring MVC** Framework and handled the authentication, authorization, and access-control features by using **Spring Security**.
- Used various **Spring Integration Components** Message, Channel, Splitter, Transformer, Router and Service activator.
- Created **Spring Controllers** and integrated with Business Components and View Components.
- Used Spring framework for middle tier and **Spring-JDBC** templates for data access.

- Used **Hibernate** for connecting to the database and mapping the entities by using hibernate annotations.
- Developed UI with **HTML, CSS, JavaScript and JSP**, and developed Business Logic and interfacing components using **Business Objects, XML and JDBC**.
- Used **AngularJS** framework for building web apps and integrated with **Restful Services**.
- Created **Typescript** reusable services and components to consume REST API's using Component-based architecture provided by **Angular 9**.
- Used **Angular Router** to build single page application for navigates through the different status and multiple modals.
- Migrated web application from WebSphere to **Tomcat** deployment environments.
- Developed several REST Web Services supporting both **XML and JSON** to perform tasks such as validation of the card details. Developed **Junit** test cases to validate the **REST Services**.
- Set up Java/J2EE development environment using **Eclipse IDE**.
- Written stored procedures, packages, views, cursors, functions and triggers using **SQL** in the back end.
- Used **Maven** for compilation and building JAR, WAR, and used **Log4j** to generate log files for the application.
- Worked with **GIT** version control system to track various aspects of the project and used **Jenkins** for CI-CD.
- Provided end to end support for the testing activities during Unit Testing, System Testing and UAT.

Environment: Java 11, Spring Frameworks, Hibernate, Amazon Web Services (AWS), HTML5, CSS3, JavaScript, JSP, Angular 9/7, SQL, XML, Business Objects, JDBC, Restful Web Services, Tomcat, Eclipse IDE, Oracle, Maven, GIT, Jenkins, Log4j, Junit, Jira

Client: T Mobile, Frisco, TX **Jan 2015 – Oct 2017**
Java Full Stack Developer
Responsibilities:

- Participated in analysis, specification, design, and implementation and testing phases of **Software Development Life Cycle (SDLC)** and used **Agile Methodology (SCRUM)** for developing application.
- Responsible for creating the detailed design and technical documents based on the business requirements.
- Utilized **Rational Rose** to design class diagrams and sequence diagrams.
- Utilized various **Core Java concepts** such as Exception Handing, Collection API's to implement various features and enhancements.
- Developed code using **Design Patterns** like Singleton, Abstract Factory, Factory Patterns and Prototype.
- Developed **Spring and Hibernate** data layer components for the application.
- Developed Java Components using Spring, **Spring JDBC** and developed **Spring Integration** classes.
- Developed **Hibernate** mapping files and Hibernate configuration for persisting data to the database.
- Configured **Spring Security** in the application to secure the method calls and RESTful web services.
- Worked with the key components of **AWS (Amazon Web Services)** like **EC2** (Elastic Compute Cloud) and **S3** (Simple Storage Services).
- Created customized AMIs based on already existing AWS **EC2 instances** by using create image functionality, hence using this snapshot for disaster recovery
- Configured **AWS Identity Access Management (IAM)** Group and users for improved login authentication.
- Set up **Elastic Load Balancer** to balance and distribute incoming traffic to multiple servers running on EC2 instances.
- Responsible for design of **JSP's** and **Servlets** for navigation among the modules.
- Developed front-end components such as controller layer, service layer and data layer using **HTML, CSS and ReactJS**.
- Created Web Services using **Apache Axis 2** for communication with other application.
- Developed and consumed **Restful web services** to accumulate data and generate reports.
- Integrated **JMS** with **Spring Boot** by providing an instance which is embed with **ActiveMQ**.
- Configured **Java Messaging Services (JMS)** on **WebLogic Server** using **Eclipse IDE**.
- Developed stored procedures, triggers, functions and cursors for efficient usage of data from **MySQL** database.
- Managed connectivity using **JDBC** for querying/inserting and data management including triggers and stored procedures. Configured **Log4j** for adding the debugging information in the code base.
- Developed test cases and performed unit testing using **Junit**.
- Fixed production support issues, data issues and data integrity.

Environment: Java 8, Spring, Hibernate, Amazon Web Services (AWS), Rational Rose, HTML, CSS, ReactJS, JDBC, Apache Axis, Rest Web Services, JSP, Servlets, XML, JMS, WebLogic, MySQL, ActiveMQ, Eclipse IDE, Log4j, Junit, Agile.

Client: UBS, New York, NY **Jan 2013 – Jan 2015**

Java Developer
Responsibilities:

- Followed **Agile** with **JIRA** for a release approach of development/deployment strategy, Test Driven Development (TDD) and developed technical design documents.
- Developed the application using **Spring Framework** that leverages **Model View Controller (MVC) architecture**.
- Used various **Core Java concepts** such as Multi-Threading, Exception Handling, Collection APIs to implement various features and enhancements.
- Integrated **Spring with Hibernate** using configurations and implemented DAO layer to save entities into database.
- Used Spring MVC to implement **Spring Controller** handling the created models and views.
- Created and maintained the configuration of the **Spring IOC Container**.
- Developed the scheduled jobs, **Servlets, JSP** and involved in the integration and release phase of the product.
- Created **front-end** using CSS3, HTML5, JavaScript, ReactJS, NodeJS and Bootstrap.
- Developed various single page applications (SPA) using **ReactJS** and used various components in the **Redux library**.
- Developed various screens for the front end using ReactJS and used various predefined components from **NPM (Node Package Manager)**.
- Used **XML Web Services** for transferring/retrieving data between different providers.
- Implemented **JSON Web Token (JWT)** to securely transfer claims between two microservices applications.
- Deployed the application in **JBoss Application Server**.
- Developed **Microservices** using **RESTful services** to provide all the CRUD capabilities.
- Developed **PL/SQL** procedures for login module and written complex SQL queries.
- Developed Unit test cases for the Web Service Clients and as part of **JUnit** tests developed mock tests for the application.
- Used **Log4j** for error handling, to monitor status of the service and to filter bad loans.

Environment: Java 8, J2EE, Spring MVC, Spring Boot, Spring IOC, Hibernate, Servlets, JSP, CSS3, HTML5, JavaScript, ReactJS, NodeJS, Bootstrap, Restful Webservices, XML, JSON, JWT, JMS, ActiveMQ, JBoss Application Server, SQL, Junit, Log4j, Jira