

Girija Polamreddy

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Summary:

- Over 5 years of comprehensive experience in various stages of the Software Development Life Cycle (SDLC), encompassing **Requirement Analysis, Design, Implementation, and Product Testing** across web-based and enterprise applications with skill in Object Oriented, **Java/J2EE**, and Client-Server technologies.
- Proficient in front-end UI technologies such as **HTML5, CSS3, Bootstrap, JavaScript, TypeScript, jQuery, Ajax, AngularJS, and ReactJS**.
- Experience in developing **ReactJS** components, handling **Forms, Events, Keys, Router, Animations, and implementing Flux concept**.
- Implemented cross-browser compatibility using **ReactJS** for various browsers including Mozilla Firefox, Internet Explorer 7, 8, 9, and Safari.
- Built cross-browser complaint applications using the **Single Page Application (SPA) pattern** and **AngularJS MVC**.
- Expertise in **Java 1.8** features like parallel streams and lambda expressions for filters.
- Developed web-based enterprise applications using **Java, J2EE, Servlets, JSP, EJB, JDBC, Hibernate**, and various Spring frameworks. Experience in Web Services (**SOAP** and **REST**) and ORM frameworks like **Hibernate**.
- Familiar with design patterns such as **Singleton, Factory Pattern, Prototype, Business Delegate, Session Facade**, and others.
- Proficient in Core Java with a deep understanding of **Garbage Collector, Collections, Multithreading, Exception handling, and Generics**.
- Practical experience in developing **Micro-Services** Architecture.
- Hands-on experience with **Kafka** and **RabbitMQ**.
- Skilled in writing unit tests using **JUnit, Mockito, and Log4j**.
- Experience with **JDBC API** and **Hibernate** for database connectivity and access.
- Familiar with various Relational Databases like **Oracle, MySQL, MS SQL Server**, and No SQL Databases like **MongoDB** and **DynamoDB**.
- Proficient in writing complex **SQL queries, Stored Procedures**, and using **Views and Indexes**.
- Experience in migrating and developing applications on platforms like **AWS** and **Azure**.
- Practical knowledge of various **Amazon Web Services** like **EC2, SQS, S3, Elastic Search, and DynamoDB**.
- Experience with Application servers like **JBOSS, WebSphere, and Apache Tomcat**.
- Built isomorphic applications using **React.js, Redux**, and server-side **GraphQL**.
- Proficient with IDEs such as **Eclipse, Spring Tool Suite (STS), and IntelliJ**.
- Experience with build tools like **Maven** and **ANT**.
- Experience in developing, deploying, and troubleshooting applications on **Windows, UNIX, and Linux** platforms.
- Experience with code repository tools like **Tortoise SVN, GitHub, and Visual Source Safe**.
- Proficiency in creating test scripts using **Selenium-IDE** and **Selenium Grid in Java**.
- Domain expertise in **Banking, Finance, E-commerce, Insurance, and Healthcare**.
- Strong understanding of business workflow, logic, and methods for implementing user requirements in a distributed application environment. Experience in maintaining high coding standards in team development.

- Excellent communication and analytical skills, capable of multitasking and working independently or as part of a team.
- A proactive team player with exceptional problem-solving, decision-making, and organizational skills.

Technical Skills:

Programming Languages	C, C++, Java, J2EE, SQL and PL/SQL.
Platforms	Windows, Linux and Unix.
J2SE/J2EE Technologies	Java, J2EE, Spring Boot, Servlets, JSP, JMS, JavaBeans, JSTL, JSF, Struts, EJB, Spring, Hibernate, JTA, JNDI, JPA JMS, GraphQL, Web Services SOAP (JAX-RPC, JAX-WS), Restful (JAX-RS), WSDL and UDDI.
Framework	Struts, Hibernate, Spring MVC, Spring Web Flow, Spring IOC, Spring AOP, JMS, JSF, Log4J, SOA, Jasper reports, Spring Boot, Spring Batch, Spring Security, Spring Data, Jersey.
Web Technologies	HTML, CSS, JavaScript, jQuery, Ajax, AngularJS, ReactJS, NodeJS and Bootstrap,
XML Technologies	XML, XSL, XPATH, DOM, SAX, DTD, XQuery, XSD and XSLT.
Deployment	AWS Cloud (S3, RDS, EC2, ECS), GCP, Docker, Kubernetes
Databases	Oracle, My SQL, SQL Server, IBM DB2, Mongo DB and Dynamo DB.
Web/Application Servers	Apache Tomcat, IBM Web Sphere, Web logic and JBOSS.
Build Tools	ANT, Maven and Jenkins
IDE / Tools	Eclipse, IntelliJ, Spring Tool Suite (STS) and RAD.
Testing Tools/ Others	Selenium, JUnit, Mockito, Soap UI, Log4j, Splunk, Kubernetes.
Version Control	Tortoise SVN, CVS and GIT.
Methodologies	Agile, Waterfall and Test-Driven Development

Professional Experience

Moore Archive | University at Buffalo, New York

2022 Jan – 2022 Dec

Full Stack Developer

- Utilized **XML**, **HTML**, **CSS**, and **JavaScript** to enhance the website's user interface, including the Notebook Viewer for easy access to Marianne Moore's works.
- Employed **XSLT**, **XQuery**, and **XPath** for data manipulation and organization of Marianne Moore's works.
- Used **Joomla CMS (Hubzero 2.0)** for website management and maintenance.

- Applied **Python** for various backend tasks and automation.
- Implemented **OCR** tools for digitization of Marianne Moore's works.
- Managed data using **JSON** and ensured version control with Git (**GitHub**).
- Utilized **TimelineJS** for creating interactive timelines on the website.
- Worked with **EVT** and **CWRC-GitWriter** for text encoding and editing.

Environment: HTML, CSS, XML (TEI), XSLT XQuery, XPath, JSON, Javascript, Joomla CMS (Hubzero 2.0), Python, OCR (various), JSON, Git (GitHub), TimelineJS EVT, CWRC-GitWriter, TEI P5-compliant RelaxNG.

Pike solutions – Hyderabad, India

2020 Jan – 2022 Jan

Sr. Java Developer

Responsibilities:

- Involved in various phases of Software Development Life Cycle (**SDLC**) of the application like Requirement gathering, Design, Analysis and Code development and understanding of business requirements and implement the process using **Agile (Scrum)** methodology.
- Created responsive web pages using **Bootstrap** and wrote client-side application in a clean MVC model using **Angular JS**.
- Integrated the front-end **jQuery** UI with backend **REST API** using **AngularJS** and **TypeScript**.
- **AngularJS Ajax** module is used to handle **RESTful** calls to enable communication between view components and server.
- Used **JAVA 8** features like **Lambda Expressions**, **Parallel Streams** and **Functional Interfaces**.
- Implemented **Core Java** concepts like **Multithreading**, **Concurrency**, **Exception Handling** and **Collections** wherever necessary in the application.
- Implemented the application using various **design patterns** such as **Singleton**, **DAO**, **Factory** and **Service Locator**.
- Developed **RESTful Web Services** with **JAX-RS** using **Spring Boot** and **Micro Services Architecture**.
- All the functionality is implemented using **Spring Boot** and **Hibernate ORM**.
- Designed and developed **RESTful** web services that support **JSON** for other developers to access to speed up development using **Spring Boot**.
- Worked on developing **RESTful** endpoints to cache application specific data in in-memory data clusters and exposed them with **RESTful** endpoints.
- Implemented the **authentication** and **authorization** of the application using **Oauth**.
- Worked on **Spring Restful** template to develop Application-Level **Micro services**.
- Used **Micro Service** architecture with **Spring Boot** based services interacting through a combination of **REST** and Apache **Kafka** message brokers and worked with **Kafka** Cluster using **ZooKeeper**.
- Used Spring **Kafka** API calls to process the messages smoothly on **Kafka** Cluster setup.
- Closely worked with **Kafka** Admin team to set up Kafka cluster setup on the **QA** and **Production** environments.
- Implemented **Kafka** producer and consumer applications on **Kafka** cluster setup with help of Zookeeper.
- Have knowledge on partition of **Kafka** messages and setting up the replication factors in **Kafka** Cluster.
- Completed unit testing of all Java classes using **JUnit** framework.
- Used **Log4j** for logging all the debugging and error information.
- Used Spring JPA Framework to use the features of **Spring JDBC** and **Spring ORM** classes like **JDBC Template** and **Hibernate Template** to perform the database operations by connecting to Data sources available.

- Performed **CRUD** operations like Update, Insert and Delete data in **Mongo DB**.
- Worked on **Mongo DB** database concepts such as locking, transactions, indexes, Sharding, replication and schema design etc.
- Written **SQL, PL/SQL, stored procedures** for **Oracle** database.
- Migrated existing monolithic application into Cloud environment using **Amazon Web Services**.
- Developed Micro-Services based **architecture** to enable the application to be deployed on **AWS**.
- Responsible for creating an instance on **Amazon EC2 (AWS)** and deployed the application on it.
- Worked on **AWS** services to deploy static websites and dynamic Web Apps on EC2 using Elastic Beanstalk and Elastic Container Service-Docker.
- Implemented a Continuous Delivery pipeline with **Docker, Jenkins, GitHub** and **AWS AMI's**.
- Developed **Java API** to interact with the **Amazon SQS** used in sending bulk emails.
- Deployed **Spring Boot** based **Micro Services Docker** container using Amazon EC2 container services and using AWS admin console.
- Used **Docker** to containerize the Services and APIs to run on EC2 instances.
- Implemented build stage-to build the Micro Service and push the **Docker Container** image to the private Docker registry.
- Wrote data mutations in GraphQL which allows user to update their username and password information. Performed Regression test using Selenium.
- Used **Maven** as build automation tool and responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using **Jenkins**. Improved Code Quality using Sonar Qube.
- Used **GitHub** as Version Control tool, **Jira** for issue tracking and **IntelliJ** as **IDE**.
- Interacted with Product Managers to fine tune user stories and with testing team to approve Functional Specification and test cases.
- Involved in Daily **SCRUM** calls and weekly **SPRINT** Meetings.
- Involved extensively in Code Reviews, Unit testing and Process Improvements.
- Actively Participated in tracking and resolving Production issues using Splunk.
- Worked on issue tracking tool **JIRA**.

Environment: Java1.8, J2EE, HTML5, CSS3, JavaScript, TypeScript, jQuery, AngularJS, Spring IOC, Spring AOP, Spring Security, Spring Boot, Hibernate, RESTful, SOAP, JUnit, Micro Service Architecture, Amazon Web Services, EC2, SQS, Docker, Kafka, PL/SQL, Oracle, MongoDB, GraphQL, Selenium, Sonar Qube, Splunk, UNIX, Maven, Jenkins, IntelliJ, GitHub, Jira.

Pike solutions – Hyderabad, India

2017 Jan – 2019 Dec

Java Developer

Responsibilities:

- Involved in various phases of Software Development Life Cycle (**SDLC**) such as requirements gathering, modeling, analysis, design, development and testing.
- Interact with the business owners and aid in understanding the application.
- Developed user interface by using the **React JS, Flux** for **SPA** development and used React-Router to turn application into **Single Page Application**.
- Worked on **React JS Virtual Dom** and **React views**, rendering using components which contains additional components called custom **HTML tags**.
- Implemented various screens for the front end using **React.js** and used various predefined **components** from **NPM (Node Package Manager)** and **redux library**.
- Used **CSS** classes defined in **Bootstrap** to further customize the appearance of the page contents.
- Used **NodeJS** for building web applications with client-server architecture where both can initiate communication in two-way connections and allows them to exchange the data.

- Used **Java 1.8 Lambda** expressions along with **Streams** for creating internal iteration and performing chain operations such as **Filter, Map, collect** on a collection Objects.
- Worked extensively on **Spring boot** for building web service. Implemented **Spring Boot Micro services** to divide the application into various sub modules.
- Developed the application with various **Spring Framework** modules like **Spring IOC, Spring AOP, Spring Boot, Spring Security, Spring Batch**.
- Used **Spring Security** for **Authentication and Authorization** of the application.
- Used **Singleton, Spring MVC, Hibernate**, Factory Pattern and **DAO design patterns**.
- Implemented **RabbitMQ** message queuing for post processing after submission.
- Integrated **Rabbit MQ** and spring **JMS API** to send and receive message for the application's **Restful API**. Used **Mockito** for testing the application and implemented **log4j** for debugging. Utilized the same for logging each sensible data access from the application.
- Used **Hibernate** as persistence Layer - using the **SQL Server Database** and configuration data to provide persistence services (and persistent objects) to the application.
- Used HQL and SQL as the query languages in **Hibernate Mapping**. Integrated the Spring and Hibernate framework.
- Designed and implemented **Hibernate Annotation-based** persistence layer for backend.
- Wrote **SQL Queries** to interact with **SQL Server Database**.
- Used **MongoDB** as data storage and utilized aspects like replica sets, sharing and clever document design to make service extensible scale and feature wise.
- Refactored existing **monolithic** application by identifying components that needs to be transformed to **Micro- services** architecture, with **Spring Boot**-based services interacting through a combination of **REST** and **Azure API-Gateway**.
- Designed and configured **Azure Virtual Networks (VNETs)**, subnets, **Azure network settings**, DHCP address blocks, DNS settings, security policies and routing.
- Deployed **Azure IaaS virtual machines (VMs)** and **Cloud services** (PaaS role instances) into secure VNETs and subnets.
- Exposed Virtual machines and cloud services in the VNETs to the Internet using **Azure External Load Balancer**.
- Implemented high availability with **Azure Classic** and **Azure Resource Manager** deployment models.
- Worked on **Microsoft Azure (Public) Cloud** to provide IaaS support to client. Create Virtual Machines through **Power Shell Script** and **Azure Portal**.
- Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**. Backup, Configure and Restore Azure Virtual Machine using **Azure Backup**.
- Taking Backup to cloud Storage Account using Cloudberry Cloud Storage Tools. Configure Site to Site VPN Connectivity.
- Create and configured the continuous delivery pipelines for deploying **Micro services** by using **Jenkins CI** server.
- Used **Maven** for the project management like build, install.
- Used **GIT** for Source Control and Version Management of all codes and resources.

Environment: Java1.8, HTML5, CSS3, jQuery, Ajax, ReactJS, NodeJS, Hibernate, Spring Batch, Spring Boot, Spring Security, Maven, JavaScript, Agile Methodology, Restful, Log4J, RabbitMQ, Azure, Micro Services, SQL, MongoDB, Automation Testing, JIRA, Mockito, GIT, Jenkins and STS.