**Sumanth Challa**

**Software Engineer**

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**Professional Summary:**

* 8+ years of experience in design, development and implementation of software applications using **Java, J2EE, technologies**. Having good experience in the Information Technology Industry and healthy participation in all phases of Software Development Life Cycle (SDLC) including analysis, design, coding.
* Build engineering and release management process, building and deploying applications by adopting DevOps practices such as Continuous development, Continuous Integration (CI) and Continuous Deployment (CD)in runtime with various tools like **Git, Maven, Jenkins, Docker, Kubernetes** and managing cloud services with **Azure &AWS**.
* Major focus on Configuration, SCM, Build/Release Management, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.
* Experienced in working on DevOps /Agile operations process and tools area (Code review, unit test automation, Build & Release automation Environment, Incident and Change Management) including various tools.
* Experience in Test Driven Development**, Waterfall model** and **Agile** methodologies like **SCRUM**.
* Experience in **analysis, design, development**, testing, maintenance, performance tuning and deployment of internet, e-commerce and client-server applications using **Java**, Servlets, **JSP**, **Java**Beans, JDBC, **Spring, Hibernate**, **AJAX**, **and JavaScript**.
* Experience in implementing resilience patterns using **Resilience4j** to enhance fault tolerance of microservices, including Circuit breaker, Rate limiter, Retry.
* Expertise in implementing web services with asynchronous and non-blocking RESTful API’s, **Webflux** router functions, Functional Endpoints.
* Good knowledge on implementing messaging services using **RabbitMQ** and **Spring Integration**.
* Expertise in Distributed and Web environments, focused in **JAVA** Technologies – **Java collections**, **Threads**, **J2SE**, **JDBC**, **Struts**, **Spring, Hibernate Framework**.
* Expertise in Web-Development technologies like **Servlets, JSP, HTML5, JavaScript, CSS3, XML, JQuery.**
* Good OOAD skills and data modeling using UML (Use-cases, Class diagrams, Sequence diagrams etc.). Used UML tools like STARUML.
* Expertise in Client scripting language and server-side scripting languages like **HTML, CSS, JavaScript, jQuery.**
* Experienced in designing, deploying and managing APIs using **Azure API Management** services including configuring and customizing API gateways, polices and developer portals.
* Extensive knowledge of **XML**-based standards and protocols (such as WSDL and **SOAP**), **Service Oriented Architecture (SOA).**
* Good knowledge and experience with Servers like **Web Logic server, Apache Tomcat, JBoss.**
* Extensive experience in working IDE tools like Eclipse, IntelliJ**.**
* Strong experience in JDBC, SQL, PL/SQL, Oracle DB.
* Experienced in generating logging by **Log4j** to identify the errors in production test environment and experienced in **Ant, Maven and Gradle tools.**
* Strong experience in **UNIX** and **Shell scripting.**
* Hands on experience with **REACT JS.**
* Experience in SVN for version control and used **Maven** for building
* Involved in **Detecting Patterns** with supervised Learning and evaluated datasets for accuracy and quality.
* Good experience in working with team members and internal departments to coordinate activities across multiple applications.
* Experience with mentoring and guiding developers, contributing to their professional development.

**Education:**

* Jawaharlal Nehru Technology University (Hyderabad, India) – Bachelor of Technology in Electronics and Communications Engineering.
* University of Bridgeport (Connecticut, USA) – Master of Science in Computer Science.

**Technical Skills:**

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| **Languages** | JAVA 6.0/7.0/8.0/11.0/17/0, Python, MySQL, PL/SQL, C. |
| **Web Technologies** | JSP, Servlets, JDBC, JMS, JPA, Web Services, SOAP, WSDL, HTML, XML, Java Beans, JavaScript, TypeScript, CSS3, SCSS. |
| **Web/App. Servers** | Apache Tomcat, Web Logic, Web sphere, JBoss. |
| **IDEs** | Eclipse, Intellij, STS, VisualCode. |
| **Tools** | Ant, MAVEN, PL/SQL Developer, JUnit, JIRA |
| **Operating systems** | Windows, UNIX, Linux. |
| **Databases** | Oracle, MySQL, MS SQL Server 7.0. |
| **Frameworks** | Struts, SpringMVC, Spring JDBC, Spring Web Flow, Hibernate, Log4j, JSF, JPA, Node.js, ReactJs |
| **Version Control** | SVN, GIT. |
| **Development Methodologies Services** | Waterfall, Agile and Scrum SOA architecture, Microservices, RESTful API design, Spring WebFlux. |

**Professional Experience:**

**Client: QVC INC – West Chester, PA February 2022 – Present**

**Role: Senior Software Engineer**

**Project Description:**

Worked on QVC's Customer and Finance applications, integrating with financial institutions for data retrieval. Migrated legacy systems to a Microservices Architecture using Java 17 and Spring Boot, enhancing performance and functionality. Implemented resilience with Resilience4j, and managed data with MS SQL and Couchbase. Developed and secured RESTful services with Spring-Security OAuth 2.0, and utilized tools like NGINX for load balancing, Azure API Management for monitoring, and Kubernetes for container orchestration. Mentored developers, applied Agile practices, and used Docker and Kubernetes for deployment and scalability.

**Responsibilities:**

* Worked on QVC Customer and Finance related applications which interacts with the Financial Institutions to retrieve the customers related financial data.
* Involved in various **SDLC** phases like **Requirement gathering, Design, Analysis, Code development and Deployment.**
* Migrated the legacy applications into Microservices Architecture based RESTful services to use Java 17 and Spring Boot resulting in improved performance and enhanced functionality.
* Implemented resilience and fault tolerance with Resilience4j to ensure stability and performance.
* Worked with MS SQL and NoSQL databases like Couchbase to store and manage data.
* Created API gateways, Monitored and analyzed API usage, configured polices on **Azure API Management** using Azure **Cosmos Database**.
* Utilized NGINX for load balancing, reverse proxy and caching services and Spinnaker for continuous delivery and deployment.
* Implemented Dynatrace for application monitoring, Rancher for container management and Consul for service discovery and configuration.
* Worked extensively with Kubernetes for container orchestration, deployment and management to ensure stability, scalability and reliability of applications.
* Mentored and guided developers, contributing to their professional development.
* Applied **Agile** Test Practices **SCRUM**, Scripted Test Cases **for Test Driven Development TDD** and developed test cases for story card based on **Acceptance Test Driven Development ATDD.**
* Developed Restful Web services for other systems to interact with our system and secured the service with **Spring**-**Security Oauth-2.0**.
* Designed and implemented RESTful webservices using **Spring WebFlux** to handle asynchronous requests and improve scalability and performance in a reactive programming environment.
* Designed and implemented asynchronous messaging systems using **RabbitMQ** to decouple services and improve scalability and fault tolerance.
* Implemented **Multithreading, Concurrency, Exception Handling, and Collections** whenever necessary.
* Involved in writing **Thread safe blocks for Multi-Threading** access to make valid transactions.
* Used **Java 1.8 Lambdas** to make anonymous inline function calls and used **Streams** to work effectively with **Collection** objects, **array operations** and Enhanced **concurrency** methods.
* Experienced with **SpringBoot test, Mockito,** **SoapUI**, **Rest Assured** testing frameworks.
* Implemented **Log4J** for Logging Errors, debugging and tracking using loggers, appenders and components.
* Experienced in handling Version Control Systems like **GIT, GitLab, Bitbucket**.
* Worked on creation of custom **Docker container images, pushing images**, integration of Spring boot.

**Environment:** Azure API Management, Docker, Java, REST, Kubernetes, GIT, Docker, Jenkins, Maven, Postman, Couchbase, Cosmos DB, MS SQL.

**Client: Oracle Health AI (Cerner Corporation) – Malvern, PA Oct 2018 – February 2022**

**Role: Software Engineer II**

**Project Description:**

Managed Cerner Registration and Financials, streamlining healthcare operations from scheduling to billing after insurance calculations. Modernized a legacy application with a tech stack including Microservices, Spring Boot, and OAuth, enhancing efficiency and reducing setup time by 80%. Developed dynamic UIs with React and integrated them with Ruby on Rails backends, while optimizing SQL queries and database schemas for Oracle DB. Utilized Jenkins, Docker, and Kubernetes for CI/CD and microservice management, and followed Agile methodologies to deliver quality solutions. Employed tools like Sonar and Crucible for code quality and performance tuning in a DevOps environment.

**Responsibilities:**

* Worked on Cerner Registration and Financials. Maintains daily activities at a Health Care Organization from Scheduling and Appointment to generating the bill after the Insurance calculations.
* Lifted a legacy application to the latest technology stack (Microservices, REST, GIT, Spring, OAuth).
* Used Spring Boot which is radically faster in building cloud Microservices and develop spring-based application with very less configuration.
* Implementing **Spring MVC** with Spring Boot which includes writing Controller classes for handling requests, processing form submissions and performed validations.
* Increased efficiency of environment setup to become 80% faster by using **Spring Boot** & **Maven** to simplify configuration, development, and deployment.
* Integration with **spring security** in web application.
* Used **React** to develop dynamic UI to display patient billing information from two legacy applications using Ruby on Rails as the backend service.
* Using React.js for single-page web application of project.
* Developed and optimized complex SQL queries using **Oracle DB**. Created and maintained SQL **stored procedures** to ensure efficient data processing with Oracle databases.
* Designed and implemented database schemas for new applications, ensuring data integrity and optimizing storage with Oracle DB features like indexing and partitioning.
* Developing Single page application (SPA) using the latest technologies like **Bootstrap, JavaScript, CSS3, HTML5.**
* Implemented applications with Lazy Loading concept to decrease the initial payload time and downloading time for the application.
* Used **Jenkins** for CI/CD Continuous Implementation and Continuous Delivery.
* Worked as per Agile Methodology (Scrum) to meet customer expectation, timelines with quality deliverables.
* DevOps Workflow representing all stages starting from SCM Commit Build, Integration Build Which Compiles Code, Junit Test cases and Code Coverage, Build and Bundle, Publish with Lead Approvals and Deployment of Artifacts.
* Developed **RESTful web services** (**Microservices**) supporting both **XML** and **JSON** (Jackson) via **Spring** Rest Template.
* Installed and configured required software for application development (RAD, Oracle database) WebSphere, Tomcat, plugin's for Eclipse, required framework jars.
* Used shared **Services** to transfer the data between sibling components.
* Used **HTTP methods** in services to communicate and retrieval of data from the API.
* Used **Spring boot Actuator** to externalize application configuration properties for different environments.
* Experienced in handling Version Control Systems like **SVN** and **GIT**.
* Experienced in build tools like **Ant** and **Maven** for **Logging** and **Junit**, **Mockito** for **testing**.
* Use of **Docker**, **Kubernetes** and Open Shift to manage micro services for development of continuous integration and continuous delivery.
* Monitor code quality with Sonar for performance tuning of the application and reviewed code using **Crucible**.
* Experience with Build Management Tools **Maven** for writing build.xml and Pom.xml.
* Branching, Tagging, Release Activities on Version Control Tools: **GitHub**.

**Environment:** Java, REST, Ruby on Rails, J2EE, Docker, Kubernetes, Java 1.8, HTML5, AWS, CSS3, Bootstrap, WebSphere, JavaScript, Spring Boot, Spring MVC, Spring Annotations, jQuery, GitHub, NPM, Microservices, Tomcat Server, MS SQL, Oracle DB.

**Client: American Express – Phoenix, AZ Mar 2018 – Oct 2018**

**Role: Java/J2EE Developer**

**Project Description:**

Developed and optimized various APIs using Spring Boot and Spring WebFlux, and managed NoSQL databases like Couchbase for configuration JSON and CSV data handling. Designed asynchronous RESTful microservices with Spring Boot and RXJava, achieving a response time of 30 milliseconds. Utilized AWS services for server management, auto-scaling, and S3 storage integration. Performed performance tuning, code reviews, and created deployment scripts using Shell and ANT. Developed web front-end applications with React.js and AngularJS, and conducted comprehensive testing using JUnit, Mockito, and Cucumber.

**Responsibilities:**

* Developed various API’s using Spring Boot, **Spring Web flux** frameworks.
* Worked on NoSQL database like **Couchbase**.
* Designed and developed RESTful services for retrieving configuration JSON documents related to customer.
* Generated CSV files and loaded the data into the Couchbase database using the **REST API’s**.
* Worked on Batch jobs to deal with large number of chunks using **Spring Batch Framework** to execute similar jobs simultaneously.
* Performed integration testing with **SpringBoot Test**.
* Had experience in performance tuning J2EE apps, performance testing, analysis, and tuning.
* Designed and developed the **REST** based **Microservices** using the **Spring** Boot.
* Worked on core **AWS** services such as Setting up new server (EC2) instances/services in **AWS**, configuring security groups, and setting up Elastic IP's, auto-scaling and Cloud Formation.
* Performed code reviews and provided guidelines for best practices of software management, Coding Standards and Code Commenting for better understandability.
* Implementing or exposing the **Micro services** based on **RESTful API** utilizing **Spring Boot** with **Spring MVC**.
* Developed **Java API** to connect with **AWS S3** Services for storing and retrieving data stored in the S3 buckets.
* Used **Spring** Boot which is radically faster in building cloud Micro services and develop **Spring** based application with very less configuration.
* Designed and developed asynchronous **REST**ful **Microservices** using **spring** boot, Couchbase and RX**Java** that are consumed by other **Microservices** with an average response time of 30 milliseconds.
* Wrote build and deployed scripts using Shell and **ANT** scripts and involved in performance analysis of the application and fixed problems/suggest solutions.
* Migrated existing **Java (GWT)** Batch processing Application to cloud environment in **AWS**.
* Implemented internal web application using React.js.
* Behavioral and Integration testing is done using **Cucumber.**
* Development of Web Front End (GUI) using HTML5, CSS3, JQuery, Angular JS, Node JS, React JS, JSON, AJAX, XSL, JSP and performed validations using Java Script and AJAX.
* Worked in updating the information of individual plans for logged users with React JS.
* Worked in adding new product features, bug fixes, and transitioning Account pages to the new platform using React JS. Unit testing of developed product features using Junit and Mockito frameworks as part of development cycle.
* Used **SOAP** based Web services and **RESTful** Web services for transferring data between applications.

**Environment:** Java, J2EE, Spring MVC, Spring Boot, Spring Batch, Spring Webflux, Hibernate, Microservices, IntelliJ, Db.Visualizer, Tomcat, JBoss, SVN, Maven, JIRA, SOAP/RESTful, Web Services, WSDL, Agile, cucumber, Bamboo CI.

**Client: Siri Nextgen Solution– Hartford, CT Aug 2016 – Mar 2018**

**Role: Java/ J2EE developer**

**Project Description:**

Actively engaged in all phases of the SDLC, analyzing use case and class diagrams to drive development. Migrated applications to REST-based microservices using Spring Boot, ensuring full CRUD capabilities. Developed and deployed solutions with technologies including Linux Ubuntu and Apache SOLR, and created the presentation layer using JSP, HTML, and Struts. Validated user data with Struts Action Forms, and integrated Spring with Hibernate for ORM and DAO development. Utilized Spring MVC and Hibernate for data access and application configuration, following Agile and Scrum methodologies.

**Responsibilities:**

* Actively participated in different phases of the Software Development Life Cycle (SDLC) and analyzed Use case diagrams and Class diagrams based on requirement.
* Migrating existing application into **REST** based **Microservices** to provide all the CRUD capabilities using **Spring** Boot.
* **Developed and deployed solution using several new technologies, including Linux Ubuntu and Apache SOLR**
* Presentation Layer is created using **JSP**, **HTML** and **Struts** Tag Libraries.
* Configured frontend to server side by using Struts Configuration.
* Validated user data using Struts Action Forms and user request is processed using Action Classes.
* Written **Hibernate** mapping file for each **Java** Object and configured with respective table in **Hibernate** Configuration.
* Involved in developing spring-ORM by integrating spring with Hibernate.
* Implemented the application using Spring IOC, Spring MVC framework.
* Developed DAO’s (Data Access Objects) and performed O/R mapping using **Hibernate** to access the database.

**Environment:** Java, J2EE, Struts 1.2, Struts Tag Libraries, Spring MVC, Spring Web Flow, Hibernate, SOAPUI 5.1, IntelliJ, Db. Visualizer, Tomcat, JBoss, SVN, Maven, JIRA, SOAP/RESTful Web Services, WSDL, Spring Based Microservices, Multi-Threading, Agile and Scrum methodology.