**Satyanarayana S**

Senior Java Backend Developer

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 (380) 388 3682   Minneapolis, MN

**Software engineer with over 10 years** of experience across all phases of the software development lifecycle, including analysis, design, development, implementation, integration, testing, and maintenance of **Java** and **J2EE** applications. Proficient in both **Agile** and **Waterfall** methodologies

**PROFESSIONAL SUMMARY:**

* Extensive hands-on experience with **Java, Spring** (including **Spring Boot, Spring MVC, Spring Security, Spring Batch, Spring IOC**), **EJB, Struts, Servlets, JDBC, Spring JPA** **Hibernate**, complemented by proficiency in **J2EE** technologies.
* Adept at designing and developing scalable **microservices** using **Spring Boot** and experienced in containerization and orchestration with **Kubernetes**.
* Solid foundation in **core Java**, including **collections** and **multithreading**, and skilled in applying **J2EE design patterns** such as DAO, MVC, Singleton, Prototype, and Factory.
* Expertise in producing and consuming **SOAP** and **RESTful** web services with technologies like **WSDL, JAX-WS, JAX-RS, JSON, XML**, and **Spring REST**.
* Proficient in writing **SQL queries, Stored Procedures,** **Functions, Indexes and Views** and, with experience across **SQL Server, IBM DB2, Oracle**, and **MongoDB**.
* Skilled in **Spring Security**, **JWT**, and **OAuth** for secure authentication and authorization.
* Demonstrated experience with **WebLogic, JBoss, WebSphere**, and **Apache Tomcat,** and extensive knowledge of **AWS** components including **EC2, S3, Lambda**, **Cloud watch, SQS, SNS, Elastic cache, Elastic Load balancer** and **CloudFront**
* Proficient in **GitHub, SVN, BitBucket**, and **IBM ClearQuest**. Adept at writing technical documentation, performing unit testing with **JUnit** and **Mockito**, and utilizing tools like **Splunk, Grafana** for monitoring.
* Experienced with **Kafka** for message processing and streaming, and familiar with **Maven** and **Ant** for deployment in various environments.
* Experience in tracking defects, issues, risks using **Rally**, **Jira, ClearQuest**, and **ALM.** Used **Log4J** for **logging**, **debugging,** andInitiative-taking, quick learner of new concepts and technologies.

**TECHNICAL SKILLS:**

Core Java, Java 1.8, J2EE, Spring Boot, Spring Framework (including Spring MVC, Spring Data JPA, Spring Batch, Spring Security), Hibernate, Groovy, Struts

**Database:** SQL Server, Oracle 10g/11g, IBM DB2, MySQL, MongoDB

**ORM Frameworks:** Spring Data JPA, Hibernate

**Web Services:** SOAP, RESTful, microservices

**Web/Application Servers:** Apache Tomcat, JBoss EAP, IBM WebSphere, WebLogic

**Deployment Environment:** OpenShift, AWS (EC2, S3, RDS, Lambda, CloudWatch, Elastic Beanstalk), Kubernetes, Azure, GCP, Docker

**IDE’s:** IntelliJ, STS, Eclipse, Microsoft Visual Studio, JDeveloper

**Source Control:** GitHub, SVN, BitBucket, Git Bash, IBM Clear Case

**Build Tools:** Apache Maven, Ant, Gradle

**Testing:** JUnit, Mockito, SoapUI, Swagger, Postman

**Bug Tracking Tools:** ALM, CA Agile Central, Jira, Kanban

**Caching:** Redis, EHCache

**Work Environments:** Agile, Waterfall

**Other Tools:** Splunk, Swagger, Dynatrace, WinSCP, VMWare Horizon Client, Jenkins, Grafana, Sonar, Fortify, Putty, BlueZone Session Manager, OpenLens, Google SDK

**Queue:** RabbitMQ, Kafka, Redis

**Operating Systems:** Windows, MAC OS, Unix/Linux

**WORK HISTORY**

**Senior Java Backend Developer**  2022-09 - present

**UnitedHealth Group (OPTUM) - Eden Prairie, MN**

**Description:** Developed an integrated eligibility system for West Virginia state residents, supporting benefits like Health, SNAP, and TANF. Implemented various modules including account management, application entry, and automated eligibility checks

**Responsibilities:**

* Functioned as an individual contributor, engaging in story grooming, and reviewing story/acceptance criteria with the Business team.
* Developed robust **Java-based microservices** using **Spring Boot** APIs for CRUD operations, adhering to coding guidelines and standards.
* Utilized **Kafka** for streaming data between microservices and external **REST APIs**, ensuring efficient message processing.
* Created and optimized **RESTful APIs** for data processing between services, improving performance through techniques such as query optimization and caching.
* Transitioned legacy **SOAP services** to modern **RESTful services**, enhancing system flexibility and integration.
* Deployed applications using **AWS** services, including **EC2**, **S3, IAM, RDS, and Elastic Load Balancer.**
* Built a common error handling framework used across all microservices.
* Designed and implemented batch processing using **Spring Batch** to manage data extraction and loading, scheduled tasks using Cron jobs, and managed periodic job restarts.
* Implemented data modeling strategies in **MongoDB** for evolving business requirements, optimizing queries with indexes.
* Configured and deployed applications on **AWS** services, including **EC2, S3, RDS, Lambda**, and **Elastic Beanstalk**.
* Applied **Singleton, Prototype**, and **Factory patterns** to improve code efficiency and reuse.
* Utilized **Spring** for dependency injection, integrating **Hibernate DAO** objects into the business layer.
* Conducted unit testing using **JUnit, Mockito, POSTMAN, SOAPUI**, and **Swagger UI** to ensure functionality meets client requirements.
* Collaborated with the database team to design data models and tables, using **SQL Server**, **Oracle 11g** and MongoDB.
* Worked with **Kafka** for event sourcing and messaging in a microservices architecture.
* Managed **Continuous Integration/Continuous Deployment** (CI/CD) with **Jenkins** and used **Maven** for build automation.
* Utilized **Log4J** for logging, **Splunk** for error tracing, and **SonarQube** for code quality.
* Deployed applications using **OpenShift** and **Kubernetes**, with Docker image creation and management.

**Environment:** Java 1.7, J2EE, Spring Framework 5.0.3, Spring Boot 2.3.0, Spring Data JPA, Spring Batch, SQL Server, Tomcat 8, Swagger 2.10.5, Maven 3.5.3, GitHub, REST Web Services, IntelliJ IDEA 2019.1.1, JUnit, Mockito, CA Agile Central, Jenkins, Kafka, MongoDB, SOAP UI, Splunk 7.3.7, Log4j2, Postman 7.18.0, VMware Horizon Client, WinSCP, OpenShift, AWS, Kubernetes, OpenLens.

**Java Developer** 2021-01 - 2022-08

**State of Florida (Deloitte) - Tallahassee, FL**

**Description:** Developed an application for Florida state residents to apply for FA/CASH and Medicaid benefits, focusing on income verification and eligibility determination.

**Responsibilities:**

* Participated in all phases of SDLC including requirements gathering, analysis, design, technical documentation, development, bug fixing, QA support, and production issue debugging.
* Applied Agile methodology for general development tasks and Waterfall methodology for specific projects like TIP& Power Tools.
* Developed web-based enterprise applications using **Core Java, J2EE, Spring Boot** microservices, **Hibernate, spring JDBC Template, Spring Data JPA**, and **JDBC**
* Designed and developed microservices based on **RESTful APIs** using **Rest Template**
* Utilized **JPA** and **Hibernate** for Object-Relational Mapping to manage database operations such as selecting, inserting, and updating records
* Used **Apache Kafka** for sending message objects to client queues and topics.
* Leveraged **Spring Core, Spring Dependency Injection**, and **Hibernate** for accessing data objects and designing scalable, integrated applications.
* Worked with **Jenkins, GitHub, SonarQube, Docker**, and **Artifact Repository** for continuous integration and deployment.
* Designed and deployed applications using **AWS** services including **EC2, S3, IAM, EBS, Elastic Load Balancer** (ELB), **Security Groups**, and **Auto Scaling**. Automated AWS resource creation using **CloudFormation Stacks**.
* Developed file transfer processes using **IBM Sterling Connect** for both Windows and Unix environments, including monitoring, and reprocessing failed transfers.
* Administered **WebLogic Server** on Linux, performing tasks such as installation, configuration, monitoring, performance tuning, and securing access with **SSH** encryption on Ubuntu and RHEL Linux.
* Experienced with **Oracle DB**, including writing SQL scripts and stored procedures. Used **ClearCase** for version control and **ClearQuest** for defect tracking.
* Extensively used **Eclipse, STS** (Spring Tool Suite), and **IntelliJ** for development, debugging, and deployment. Implemented **Log4j** for runtime logging without modifying application binaries.
* Evaluated REST endpoints using **Postman** and **SOAP UI**

**Environment:** Java 1.7/1.8, J2EE, Spring Boot, Spring, RESTful Web Services, Hibernate, JSP, JSON, XML, JUnit, WebLogic, Maven, Oracle DB, Log4j, STS (Spring Tool Suite), Postman, WinSCP, Kafka, Jenkins, GitHub, IBM ClearCase, JCL, BlueZone Session Manager, Mainframes

**Java Developer** 2018-04 - 2020-12

**UnitedHealth Group (OPTUM) - Eden Prairie, MN**

**Description:** Enhanced the integrated eligibility system, focusing on automated checks, business process improvements, and secure document handling.

**Responsibilities**:

* Developed microservices using **Spring Boot, Spring Data**, **Spring Security,** and implemented **JWT token**
* mechanism for secure authentication
* Integrated **DocuSign APIs** for eSignature functionality during the application submission process.
* Configured and deployed applications in the **AWS** cloud environment, utilizing services such as **EC2, S3, RDS, EKS**, and **CloudWatch**.
* Defined data models using **REST API** services and worked with **Spring, Hibernate, RESTful services, Core Java, Collections**, and **Multithreading.**
* Utilized message brokers such as **ActiveMQ** and **RabbitMQ** for asynchronous communication.  Leveraged **Kafka** for message processing and **Redis** for caching to improve performance.
* Developed batch processes using Cron jobs to meet business requirements.
* Collaborated with the database team to design data models and tables using **SQL Server** and **Oracle 11g**.
* Conducted integration and end-to-end testing using **Postman** and **Swagger.** Managed CI/CD pipelines with **Jenkins** and used **Maven** for build automation.
* Employed **Log4j** for logging and used **Splunk** to trace errors with business correlation IDs.
* Developed and deployed applications in **OpenShift** containers after creating Docker images. Used **Docker** and **Kubernetes** for containerization and orchestration.
* Participated in production code deployments, ensuring smooth release processes, and resolving technical issues arising from module integration.

**Environment:** Java 1.8, J2EE, Spring Framework 5.0.3, Spring Boot 2.3.0, Spring Data JPA, Oracle 11g, Tomcat 8, Swagger, Maven 3.5.3, GitHub, BitBucket, SQL Server, REST Web Services, IntelliJ IDEA 2019.1.1, JUnit, Mockito, CA Agile Central, Jenkins, Grafana, SOAP UI, Splunk 7.3.7, Log4j2, Postman 7.18.0, VMware Horizon Client, WinSCP, OpenShift, AWS.

**Software Developer** 2017-04 - 2018-03

**State of New York - Albany, NY**

**Description:** Developed a system for managing environmental resources and outdoor opportunities, focusing on scalable and secure applications.

**Responsibilities:**

* Participated in Agile/Scrum processes including Sprint Planning, Sprint Grooming, and User Story allocation using **Rally**.
* Designed and developed **REST-based microservices** using **Spring Boot** and implemented **Spring Boot** for microservices architecture.
* Created web services with **Spring, REST**, and **Hibernate**, and developed various application modules. Spring Framework: Configured **Spring Container** for **Inversion of Control** (IoC) and **Dependency Injection** (DI). Used **Spring Core Annotations** for DI and **Spring MVC** for REST APIs.
* Integrated **Apache Kafka** for messages and data streaming between services.
* Implemented **MongoDB** for handling unstructured data and optimizing performance.
* Developed **REST APIs** with resource-based URIs using **Jersey** and **RestEasy** (implementations of **JAX-RS**). Core Java: Applied **Core Java** concepts including **Multi-Threading, Concurrency, Exception Handling, File Handling, IO, Generics**, and **Java Collections**.
* Wrote **Oracle PL/SQL** stored procedures, triggers, and views.
* Implemented design patterns such as **DAO, Singleton**, and **MVC** architectural design patterns. Conducted client-side and server-side validations based on business requirements.
* Used **Maven** for automating builds and application deployments in both **Windows** and **UNIX** environments. Testing: Developed and executed **JUnit** test cases for unit testing.
* Utilized **Log4j** for logging and debugging.

**Environment:** Java 1.8, Spring Boot, Microservices, Kafka, Struts, Spring Tool Suite (STS), Log4j, MongoDB, Oracle, Agile, JUnit, Mockito, SVN, JIRA, Jenkins, Maven

**Software Developer** 2015-05 - 2017-03

**Verizon - Alpharetta, GA**

**Description:** The Chat Bot App utilized **Artificial Intelligence** and **Natural Language Processing** to respond to user intents. The application, deployed on mobile and Verizon platforms, was built using a microservices architecture with **Spring Boot** and **REST**.

**Responsibilities**:

* Created a RESTful web services architecture using **Spring MVC** framework.
* Used **Eclipse IDE** for development and **Maven** for configuring and deploying applications to **Tomcat**.
* Developed backend services using **Spring** and tested responses with **SOAP UI**.
* Integrated **Kafka** for messaging and **Redis** for caching solutions.
* Managed deployment and scaling on **AWS** services such as **EC2** and **S3**
* Deployed applications on **JBoss Application Server**.
* Engaged in all phases of the Software Development Life Cycle (SDLC), including design, development, and support.
* Applied **Core Java, Spring, Hibernate**, and **SQL Server** for application development.
* Configured **Hibernate** mapping and properties for data manipulation and defined database connections. Web Services: Developed web services using **JAX-WS** and generated **WSDL**.
* Implemented business logic using **Java Beans, Servlets, Interfaces**, and **POJO** objects.
* Participated in QA with experience in **Functional Testing, Integration Testing**, and **Performance Testing**.
* Developed user interfaces using **JSP, JSP Tag Libraries**, and third-party libraries.
* Used **Jenkins** for continuous build integration and deployment.  Designed and developed Hibernate DAO layers for data access.
* Developed and tested applications in a **UNIX** environment.

**Environment:** Hibernate, REST Web Services, Spring MVC, Kafka, AWS, JBoss, Core Java, SQL Server, UNIX

**Software Developer** 2013-05 - 2014-08

**Camelot - Hyderabad, India**

**Responsibilities**:

* Actively involved in requirements gathering, analysis, and conceptual design, including upgrading the project using the **Spring** framework.
* Designed and implemented **RESTful web services** to create endpoints for various operations, enabling multiple clients to process business transactions.
* Developed business logic for transaction processing using generated **Java stubs/POJOs**.
* Utilized **Hibernate** for object-relational mapping (ORM) based on **POJO** classes.
* Implemented **WS-Security** for authenticating **SOAP** messages, including encryption and decryption.
* Employed **Collection Framework** features such as **Map, List**, and **Object** to manage data retrieved from web services and manipulate it to fit business logic before saving it to the **SQL Server database**.
* Developed **SQL queries, stored procedures**, and **triggers** for data retrieval and manipulation.
* Wrote **JUnit** test cases for application testing and performed thorough testing and bug fixing to ensure a complete end-to-end workflow.
* Consistently met deadlines and requirements for all production work orders.

**Environment:** Core Java, Spring MVC, Web Services, Hibernate, SQL Server, WebLogic.

**EDUCATION**

**Bachelor’s in Electrical & Electronics Engineering**

*JNTU Hyderabad, India - 2013*

**Master of Science in Electrical & Electronics Engineering**

*Wright State University - 2015*

**Master of science in Information Studies**

## *Trine University - 2021*