**Harsha Vardhan Digumarthy** *Sr Java Developer with AI/ML*

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**OBJECTIVE**

Senior Java Developer with 10+ years of experience building scalable, data-intensive applications. Currently working on enterprise-grade insurance analytics systems where I design and develop microservices using Java, Spring Boot, and SQL. I work on big data pipelines involving HDFS, Hive, Sqoop, and Oozie, enabling downstream ML analytics and predictive models. I automate ETL workflows, orchestrate data flows using shell scripting, and expose RESTful APIs for AI consumption layers. My background supports AI/ML teams by ensuring clean, reliable, and structured data movement at scale. Proficient with Maven, JUnit, Postman, PCF, and Unix-based systems—bringing a hybrid skill set of backend engineering, data engineering, and AI/ML-enabling infrastructure.

* Over 10+ years of hands-on experience in full stack Java development, covering the entire SDLC—from analysis, design, and implementation to testing and maintenance of enterprise-level web applications.
* Regularly used IDEs such as IntelliJ IDEA, Eclipse, and Spring Tool Suite (STS) to develop and debug complex Java/J2EE applications in large-scale enterprise environments.
* Designed and reviewed UML artifacts (Use Case, Class, Sequence, and Activity diagrams) with tools like MS Visio and Rational Rose to guide system architecture and object-oriented design.
* Leveraged build and configuration tools including Maven, Gradle, Jenkins, Ant, and Ansible to automate builds and manage dependencies; tracked delivery progress using JIRA and Quality Center (QC).
* Wrote advanced SQL queries, PL/SQL procedures, and triggers for transactional consistency and performance in PostgreSQL, MySQL, Oracle, and NoSQL databases such as MongoDB and Cassandra.
* Hands-on experience with a wide range of AWS cloud services including EC2, S3, ELB, RDS, VPC, CloudWatch, IAM, Route 53, CloudFormation, EFS, Glacier, supporting cloud-native Java applications.
* Built enterprise web applications using JSP, Servlets, JSF (PrimeFaces), EJB, JMS, JDBC, and other J2EE technologies, supporting high-throughput and distributed system requirements.
* Strong command of Core Java, with in-depth use of data structures, multithreading, exception handling, I/O streams, and collections; applied OOP principles and design patterns to optimize code.
* Developed multi-tier web applications using Spring MVC and Spring Boot, configuring beans via annotations and XML, and integrating services with external systems via REST/SOAP.
* Extensive experience with Spring modules including Spring IOC, AOP, MVC, JDBC, REST, Security, Batch, Cloud, and Data, enabling scalable and secure application development.
* Proficient in using Hibernate ORM and Spring Data JPA to map Java objects to database schemas and support complex CRUD operations and custom queries.
* Developed microservices using Spring Boot and Spring Cloud, implementing API gateways, load balancing, centralized config, and fault-tolerant design using Hystrix and Resilience4j.
* Practical knowledge of Java design patterns like Singleton, Factory, DAO, DTO, MVC, and Business Delegate to develop reusable and modular codebases.
* Experience with multiple relational and NoSQL databases such as PostgreSQL, Oracle, MySQL, SQL Server, MongoDB, and Cassandra, including PL/SQL procedures and schema design.
* Built RESTful and SOAP-based web services using Spring REST, JAX-RS, JAX-WS, Jersey, Apache Axis2, Apache CXF, and handled service contracts with WSDL and Swagger.
* Used Postman for REST API testing and automated documentation with Swagger (OpenAPI) and WADL, supporting robust and discoverable service layers.
* Wrote unit and integration tests using JUnit, Mockito, and TestNG as part of Test-Driven Development (TDD) to ensure high test coverage and early defect detection.
* Applied logging frameworks like Log4j, SLF4J, and integrated with Splunk to enable robust production diagnostics and performance monitoring.
* Integrated Apache Kafka and JMS (ActiveMQ, RabbitMQ) into microservices for real-time message streaming and decoupled system interactions in a scalable architecture.
* Experienced in full-cycle DevOps practices including version control with Git, CI/CD automation using Jenkins, and issue tracking with JIRA, enabling continuous delivery and deployment pipelines.
* Solid understanding of HBase NoSQL schema design principles and data modeling strategies for distributed, scalable data storage in cloud-native architectures.
* Ability to move the data in and out of Hadoop RDBMS, No-SQL from various systems using SQOOP and other traditional data movement technologies.
* Involve in the integration of the applications with different tools like Team city, GitLab, Bitbucket and JIRA, Rally for issues and stories tracking.
* Experience in Agile methodology such as Scrum and in SDLC.

**EDUCATION**

* Bachelors in Electronics and communications from JNTUH. 2012

**TECHNICAL SKILLS**

* **Programming Languages**: Java, JavaScript, HTML/CSS, SQL
* **ML/AI Ecosystem (Integration Level)**: REST APIs for Model Serving, Data Preprocessing, JSON-based ML data exchange
* **Front-End Development**: HTML5, CSS3, JavaScript, jQuery, AngularJS, ReactJS, Vue.js
* **Back-End Development**: Java EE, Spring Framework (Spring Boot, Spring MVC, Spring Data), Hibernate, Servlets, JSP
* **Database Technologies**: MySQL, Oracle, PostgreSQL, MongoDB, SQL Server
* **Web Services**: RESTful APIs, SOAP, JSON, XML
* **Version Control**: Git, SVN
* **Build Tools**: Maven, Gradle
* **Testing Frameworks**: JUnit, Mockito, Selenium
* **Deployment and Containerization**: Docker, Kubernetes
* **Agile Methodologies**: Scrum, Kanban
* **DevOps**: CI/CD, Jenkins, GitLab CI/CD, Azure DevOps, AWS, Azure
* **Frameworks and Libraries**: Apache Struts, JSF, Apache Tomcat, Apache Camel, Apache Kafka
* **(SDLC) methodologies**: Waterfall, Agile, Scrum

**WORK EXPERIENCE**

**MetLife Insurance, Jersey City, NJ *Oct 2023 – Till date***

***Domain: Healthcare – Focused on payment processing, insurance claims, and secure data transaction***

***Sr Java Developer with AI/Ml***

***Responsibilities:***

* **Built scalable microservices** using Core Java 1.8 and Spring Boot to process large volumes of healthcare claims and payments, laying the foundation for downstream machine learning analytics.
* **Engineered high-throughput data pipelines** for ingesting and transforming claims data, enabling the creation of clean, structured datasets suitable for training predictive models.
* **Integrated with Hadoop ecosystem tools** like Hive, HDFS, and Oozie to manage distributed data workflows and schedule batch jobs that fuel AI-driven insights on fraud detection and claims optimization.
* **Designed RESTful APIs** to expose transactional healthcare data to AI/ML teams, ensuring seamless integration with model serving layers and feature stores.
* **Developed multithreaded modules** to handle concurrent processing of insurance records, improving data readiness for real-time ML pipelines by 40%.
* **Applied Spring Security and OAuth2** for secure API consumption, enabling HIPAA-compliant data access across model ingestion and prediction endpoints.
* **Implemented logging and exception strategies** to trace ML pipeline errors and automate alerting for failed data preprocessing jobs.
* **Optimized API responses** by caching frequently accessed data, reducing model inference latency by integrating Redis-backed caching strategies.
* **Collaborated with data scientists** to align backend service outputs with model input formats, improving feature engineering efficiency and deployment speed.
* **Used Shell scripts and Oozie workflows** to automate ETL tasks feeding the ML model lifecycle, including data preparation, validation, and versioning.
* Designed and consumed both RESTful (JAX-RS) and SOAP (JAX-WS) web services to enable secure data flow with insurance providers and third-party systems.
* Managed asynchronous communication between services using JMS and ActiveMQ to support claim intake and adjudication processing.
* Developed API interfaces documented using Swagger for easier consumer integration across internal healthcare tools.
* Maintained and versioned WSDLs and worked with legacy XML-based systems using custom parsing and SOA principles.
* Configured Control-M jobs to automate nightly claim batches and raise custom alerts, improving operational SLAs.

Used Hibernate and JPA for ORM, simplifying database access and mapping Java objects to relational data in PostgreSQL.

* Wrote optimized native SQL queries to retrieve claims and policyholder data efficiently for complex healthcare reporting.
* Integrated MongoDB as a NoSQL store for handling large-scale, unstructured documents and audit trail management.
* Tuned queries and indexes in Oracle and MySQL databases to optimize transaction latency for backend services.
* Ensured secure, compliant data access across multiple data sources, aligning with healthcare regulations and business logic.
* Built and deployed Dockerized Java microservices into Kubernetes clusters hosted on AWS EKS for high availability and scalability.
* Integrated services with AWS components including EC2, S3, API Gateway, CloudWatch, and Lambda for event-driven processing.
* Automated CI/CD pipelines using Git, Jenkins, and Maven to enable rapid, reliable delivery of healthcare platform updates.
* Developed post-deployment validation scripts in Shell and Python for API health checks and backend monitoring.
* Enabled centralized logging using Log4j, SLF4J, and Splunk for real-time production monitoring and error diagnostics.
* **Environment**: Java 1.8, Spring Boot, Angular 10&11, Microservices, Kafka, HTML5, CSS3, Log4J, Jenkins, XML, Spring REST, MySQL, MongoDB (NoSQL), Web Services, Swagger, Hibernate, Bootstrap, GitHub, NodeJS, JBOSS, Spring Security, Oracle, WebSphere, JUnit, jQuery, Angular JS/8/9, REST, HTML5, jQuery, Ajax, Bootstrap, Maven, Jasmine, Karma, Junit, Jira, Log4j, Agile, AWS (EC2, Lambda, EKS, S3, API Gateway, CloudWatch, IAM), PCF, Docker, Kubernetes, Jenkins, Maven, GitHub, Control-M

***Bank of America, Charlotte, NC Sep 20 to Oct 23***

***Domain: Financial – User authentication, transaction services and backend systems for banking operations***

***Java Developer***

***Responsibilities***

* Developed backend logic using Java 8 and Spring Framework (IOC, AOP, Spring JDBC) to manage user sessions, transaction workflows, and content delivery.
* Built business logic and entity beans to handle database transactions and deliver processed data to the UI layer.
* Applied J2EE design patterns including DAO, Service Locator, Business Delegate, Session Facade, and Command Pattern for modular and scalable application design.
* Integrated Single Sign-On (SSO) for secure authentication across development, testing, and production environments.
* Used Log4j for logging and debugging application performance issues in distributed banking systems.
* Developed user interfaces with Angular 10, HTML5, CSS3, JavaScript, and jQuery to create responsive, mobile-friendly banking dashboards.
* Enhanced frontend validation using jQuery plugins and Angular form modules for secure data capture and error handling.
* Used AJAX and JSON for asynchronous communication between frontend and backend, enabling real-time updates without page reloads.

Created and updated JSP pages and integrated them with Struts and Spring for user module presentation logic.

* Designed UI with modular components and seamless data binding to backend services via Angular's HTTP client.
* Implemented RESTful services using JAX-RS and Apache CXF for secure transaction APIs and internal service calls.
* Used Kafka and RabbitMQ for asynchronous data processing and inter-service messaging in real-time financial applications.
* Integrated IBM MQ for JMS-based messaging systems to handle point-to-point and publish-subscribe communication between banking modules.
* Handled JSON payloads for inter-service communication and secured message formats using validation logic.
* Managed communication between systems using custom-built publishers and subscribers for high-speed processing.
* Implemented DAO pattern to connect and perform CRUD operations on DB2 and Oracle databases for account and transaction data.
* Wrote and optimized SQL stored procedures and functions in SQL Server to transform relational data into ElasticSearch-compatible documents.
* Used Hibernate ORM for mapping Java entities with database tables and improving database interaction efficiency.
* Created and maintained data sources across environments and configured JDBC settings in Spring to enable connection pooling and query tuning.
* Conducted data validation and reliability testing using JUnit and Mockito for backend services.
* Built and deployed applications using ANT and Maven on Apache Tomcat and WebSphere application servers.
* Managed containerization and deployments using Docker for cross-environment compatibility and ease of rollouts.
* Integrated Jenkins pipelines for automated builds and continuous deployment workflows.
* Involved in configuration management using Chef and GitHub to maintain version control and infrastructure scripts.
* Used Karma, Selenium, and JMeter for unit, UI, and performance testing, ensuring system reliability under load.
* **Environment**: Java 8, Maven, Hibernate, React JS, Angular JS, Angular 10, HTML5, CSS3, Kafka, RabbitMQ, Apache Tomcat, Json, Java script, Spring, Oracle, SQL, Spring JDBC, Eclipse, JUnit/Mockito, Karma, JMeter, Selenium, Jenkins, Chef, GitHub, Docker,

***Gordon Food Service, Wyoming, MI. Jun 18 – Sep 20***

***Java Full Stack Developer***

***Responsibilities***

* Used SoapUI, Postman, and ARC for testing and developed JUnit test cases.
* Designed and developed CI/CD and release management solutions using Git, Jenkins, Maven, Docker, Artifactory, Kubernetes, Helm, and Amazon EKS.
* Implemented microservices containers using Docker and Kubernetes.
* Deployed applications on Apache Tomcat Application Server 8.x.
* Involved in all phases of the SDLC, including analysis, design, coding, testing, and deployment.
* Utilized Spring Core Annotations for dependency injection and Restful web services.
* Deployed applications using Tomcat server for staging environments.
* Configured and deployed applications on Amazon Web Services (AWS) using cloud formation.
* Developed pages using AngularJS directives, expressions, routing capabilities for bookmarking, filters, validations and Angular 6 UI components such as grid, buttons, carousels, date pickers, modal dialogs and other input components.
* Designed and developed the REST based Microservices using the Spring Boot, Spring Data with JPA (Java Persistence API) and Used Swagger to interact with API end points of the Microservices.
* Working HA Environment, Configuring the Kubernetes pods and testing the pods.
* Used Hibernate as ORM to map Java classes to database tables. Involved in setting up configuration properties, ORM mapping and CRUD operations with database.
* Implementing Oracle SQL Queries & PL/SQL - stored procedures, functions, triggers, sequences and built-in functions to retrieve and update data from the databases.
* Integrated Enzyme with other testing libraries and frameworks, such as Jest or Chai, to create comprehensive testing solutions.
* Worked on creating responsive websites for smart devices using Responsive design and media queries and successfully handled JSON/XML data
* Integrated Spring Security with JDBC to manage user registration and login.
* Developed unit test cases using JUNIT, Easy Mock, Integration and User Acceptance Testing and developed test cases for bean components. Used Maven and Jenkins to build and deploy applications.
* Involved in running PMD defects & Find bugs.
* Developed BDD tests using Cucumber by writing behaviors and step definitions. Developed required Selenium support code in JAVA for Cucumber.
* Utilized Docker containers and cloud services like AWS and Cloud Foundry for application deployment.
* Developed Spring RESTful services and utilized the Spring Core Framework.
* Developed views, controllers, and model components using AngularJS.
* Utilized Git as a version control system.
* Developed RESTful web services using Java Servlets, JSON, JAX-WS, JAX-RS, Hibernate, and JPA.
* **Environment:** Java 7, Servlets, AngularJS, Spring Boot, AWS, Hibernate, Restful Web Services, JPos, Swagger, JPA, JSON, XML, Gradle, Tomcat Server 7 and MySQL

***Volvo, Greensboro, NC. Apr 16 – Jun 18***

***Java Developer***

***Responsibilities***

* Used Eclipse in developing different J2EE components
* Used Servlets, JSPs and Struts framework.
* Actively coordinated meetings and followed up with the clients for gathering project requirements and specifications.
* Analyzed the requirements and designed the ER diagrams in accordance with the specifications.
* Responsible for developing some of the PHP-based frameworks.
* Developed programs using HTML, JSP, XML, and Servlets.
* Responsible for executing the JAVA web applications on application server.
* Developed SQL Queries and stored procedures in SQL Server for retrieving the data from the database.
* Extensively used the JSP in the view side of MVC.
* Preparing the design documents and review with analysis team, development team and testing team.
* Extensively worked on presentation layer and simulators developed with Struts.
* Used SQL Queries and Stored Procedures extensively in retrieving the contents from SQL Server.
* Responsible for the Analysis and detailed Design of the Database Tables.
* Used JSP for taking the user input and sending it to the Java business classes.
* Used Photoshop to design buttons and menus for the website.
* Designed and developed various Core and Advanced Java application modules using Applets, Swing, AWT and Threading.
* Involved in coding of Action Classes and Model Classes.
* Used WebSphere application server.
* **Environment**: Struts, MVC, Java, J2EE, JavaScript, HTML, JSP, Ajax, Servlets, XSL, XML, JNDI, Web sphere, Eclipse, Apache Tomcat, SQL Server, PHP, JDBC.

***Commerce Bank, Kansas City, Missouri. Feb 14 – Apr 16***

***Java Developer***

***Responsibilities***

* Implemented design patterns like Singleton, Factory, Business Delegate, Session Facade, Value Object, and DAO.
* Utilized Spring Framework's IOC Dependency Injection and Service Locator design pattern in Action Classes.
* Used Struts tag libraries in JSP pages and developed a controller Servlet for request dispatching.
* Developed the application under J2EE architecture using Spring, Struts, Hibernate, Servlets, WebLogic, and JSP.
* Developed Java applications using JDBC and multithreading.
* Developed Microservices with Spring Boot and Coherence cache implementation.
* Implemented various design patterns such as Business Delegate, DAO, DTO, Service Locator, Session Facade, View Helper, and Value Object.
* Developed Hibernate mapping files and configurations for database persistence.
* Utilized Java Persistence API (JPA) for data persistence.
* Utilized JUnit for unit testing, integration testing, and production testing.
* Used ANT Builder for code building and Log4j for logging.
* Integrated Spring Framework with Hibernate for dependency injection.
* Used SVN as the Version Control System.
* Utilized Spring MVC architecture for presentation and business layers.
* Utilized HTML5, CSS3, JavaScript, and Bootstrap for front-end development with a Java backend.
* **Environment***:* JDK1.8, JSP, Servlet, EJB, spring, JavaScript, Java 8.0, Struts, AWS.