

# HARSHA VARDHAN REDDY GOLI

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## Professional Summary

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- Over 4 years of experience in software development, specializing in the design and optimization of Java-based applications, RESTful APIs, and microservices architectures, with a focus on performance, scalability, and security.
- Expertise in backend technologies including Java, Spring MVC, Spring Boot, and Hibernate, along with robust database management skills (MySQL, PostgreSQL, Oracle). Extensive experience in query optimization, schema design, database normalization, and performance tuning to ensure efficient, & scalable system operations across enterprise-level applications.
- Skilled in front-end development with Angular, ReactJS, JavaScript, and JSP, creating responsive, user-friendly interfaces and ensuring consistency across design systems for enhanced user experiences.
- Extensive experience with DevOps and CI/CD practices, implementing Jenkins pipelines, and managing containerized deployments using Docker and Kubernetes on AWS and GCP for reliable and seamless application delivery.
- Strong expertise in cloud infrastructure and monitoring tools, such as AWS, Google Cloud Platform, Grafana, Prometheus, and AppDynamics, ensuring high availability and optimal application performance.
- Proven ability to work in Agile environments, Platform operating model(POM) leveraging Scrum and TDD practices to foster collaboration, continuous improvement, and iterative development for timely, high-quality deliverables.
- Proficient in security and compliance measures, including vulnerability management, application updates, and regulatory reporting using tools like SonarQube to ensure adherence to industry standards and maintain code quality.

## Experience

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### The Bank of New York Mellon

05/2022 – Present

*Senior Software Engineer, Java*

*Pittsburgh, Pennsylvania*

- Collaborated with stakeholders and operations teams to analyze and implement enhancements for the Bank of Wall Street Interface (BWI), a Java-based wrapper layer around Wall Street Suite (WSS) powered by ION, supporting the flow of trade data across BNY Mellon systems and enabling seamless integration for internal and external trading workflows.
- Designed a database schema to manage trade processing interfaces, establishing primary and foreign key relationships and creating DAO classes to support secure data flow across BNY Mellon systems. Integrated messages into Spring channels to ensure reliable trade transmission, implementing replay and resend mechanisms to guarantee accurate trade processing.
- Developed and upgraded Java applications using Spring Framework, Kafka, REST APIs, SFTP, and NDM to securely route trades between BWI and WSS, integrating with internal systems to ensure reliable, high-performance trade processing.
- Implemented enhancements to the JSP-based GUI frontend by retrieving data through backend bean classes, ensuring seamless data flow and accurate presentation of trade information on the frontend.
- Executed comprehensive vulnerability management by identifying and addressing security gaps, upgrading the application from Java 11 to 17, and decommissioning unused components (e.g., interfaces, MQ channels, database configurations) in collaboration with cross-functional teams to enhance application security and operational efficiency.
- Designed and implemented the Global Settlement Instruction (GSI) Website utilizing Java, Spring Boot, shell scripting, and Log4j2; configured secure GFTP for acquiring vendor reports, ensuring compliance with bank security standards.
- Modified layout XML and XSD files based on regulatory and business reporting requirements, collaborating with different teams to ensure compliance with reporting standards and accurately reflect data requirements. Conducted discussions with business teams to identify columns needed for regulatory and other reporting and adjusted accordingly.
- Authored and optimized JUnit and Mockito test cases to achieve 90% code and conditional coverage, connecting to SonarQube for continuous code quality and security monitoring, ensuring compliance with development standards.
- Automated CI/CD workflows by scripting build, test, and deployment stages; managed dependencies with Maven and JFrog Artifactory, ensuring consistent deployment and version control for application releases.
- Built new interfaces and trade processing flows to enable external banks to send trade data to BNY's Wall Street Suite, processing over 10K daily trade records with 99.8% accuracy. Scoped requirements, implemented business logic in Java, and collaborated with external teams to ensure 100% regulatory compliance and improvement in processing time.
- Updated and optimized Docker images by refreshing base images to meet bank standards and incorporating the latest Java agents. Configured Kubernetes deployment manifests and assembly files to automate scaling, enhancing fault tolerance.
- Monitored and troubleshooted issues in lower environments using Splunk logs and AppDynamics; deployed fixes to ensure stability in lower environments for user testing, minimizing production issues and optimizing operational workflows.
- Provided bi-weekly on-call support for lower environments, ensuring operational continuity for cross-bank testing and resolving issues related to trade data flow, application performance, and data consistency across interfaces.
- Managed release branches by preparing consolidated releases, scripting blackout plans, and deploying builds in production. Conducted post-release health checks to confirm that all nodes, MQ channels, and interfaces were fully operational.
- Ran complex SQL queries and performed financial data analysis on Oracle databases using SQL Developer to support trade validation, reporting, and application troubleshooting, ensuring data integrity and accurate financial analytics.

## Wells Fargo

09/2021 – 05/2022

*Software Engineer, Java*

*Dallas, Texas*

- Collaborated with stakeholders and product managers to assess and prioritize application enhancements, conducting impact analysis to ensure alignment with business requirements and user experience goals.
- Modernized legacy components in a monolithic application by re-architecting core elements with Java 17 and Spring Boot, establishing a modular microservices foundation that improved scalability and resilience.
- Optimized RESTful APIs to enhance backend-to-frontend data flow, reducing API response times by 25%..
- Designed and implemented responsive user interfaces in collaboration with UX designers, using React and JavaScript to enhance user engagement. Optimized cross-device functionality and performance for a seamless user experience.
- Created reusable front-end components and introduced a consistent design system to accelerate development.
- Crafted optimized MySQL queries to streamline data retrieval and enhance performance, reducing response times for high-volume transactions and ensuring data integrity across key business applications. Conducted thorough query analysis to identify bottlenecks, resulting in efficient and consistent data processing that supported critical business operations.
- Performed rigorous unit and integration testing using JUnit, achieving 90% test coverage. Worked closely with QA teams to identify and resolve pre-production issues, reducing user-reported issues in production environments by 20%.
- Configured Docker containers to ensure consistent and replicable deployment environments across stages, including development, testing, and production. Deployed applications on AWS and utilized Kubernetes for automated scaling, load balancing, and fault tolerance, effectively supporting high availability and system resilience.
- Designed and implemented CI/CD pipelines with Jenkins to fully automate the build, test, and deployment cycle. Streamlined code release processes, enabling faster and more frequent deployments.
- Monitored and analyzed application performance metrics using Grafana and Prometheus to proactively identify and address bottlenecks. Enhanced logging mechanisms for faster issue resolution, supporting user experiences & application uptime.
- Actively participated in Agile ceremonies, including sprint planning, daily stand-ups, and retrospectives, to ensure alignment on development priorities. Contributed to a collaborative and transparent team environment, enabling productive feedback loops and continuous improvement.

## OpenText

06/2019 – 12/2019

*Engineering Intern*

*Hyderabad, India*

- Collaborated with cross-functional teams, including QA and product teams, to verify requirements, debug issues, and resolve blockers during the testing phase, ensuring high-quality releases for end users.
- Engaged in Agile sprint planning and meetings to track progress, clarify tasks, and contribute to the development process.
- Contributed to the enhancement of front-end solutions for OpenText's Enterprise Content Management (ECM) platform by implementing performance-focused optimizations in Angular and jQuery. These improvements streamlined user interactions and reduced page load times by 20%, significantly enhancing the platform's responsiveness and overall user experience.
- Developed and maintained Java applications, working with senior developers to implement core features and fix bugs, contributing to the stability and performance of OpenText solutions.
- Supported back-end development tasks using Java and Spring Boot, including writing and optimizing service methods, handling data processing, and ensuring efficient data retrieval for improved application performance.
- Assisted in front-end development using Angular, implementing interactive components and enhancing the user interface.
- Participated in code reviews, adhering to best practices for clean and efficient code. Incorporated feedback from senior team members to refine coding skills and meet project quality standards.
- Created unit tests for new and existing features using JUnit, increasing test coverage and identifying bugs early in the development cycle to ensure application stability and reliability.

## Technical Skills

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**Languages:** Java, Python, JavaScript (ES6+), TypeScript, SQL, HTML/CSS, Shell Scripting, C, C++

**Frameworks & Libraries:** Spring Boot, Spring, Hibernate, React, Angular, Node.js, JSP, Log4j2, JUnit, Mockito

**Technologies:** Docker, Kubernetes, Jenkins, Kafka, SonarQube, Maven, Gradle, JFrog Artifactory, Terraform, Ansible

**Cloud Platforms:** AWS (EC2, S3, RDS, Lambda, CloudWatch, API Gateway), Google Cloud Platform (GCP)

**Databases:** MySQL, PostgreSQL, Oracle, MongoDB, Cassandra, DynamoDB

**Web & API Development:** RESTful APIs, GraphQL, SOAP, WebSocket, Message Queues (ActiveMQ, RabbitMQ)

**Monitoring & Performance Tools:** Grafana, AppDynamics, Splunk, ELK Stack (Elasticsearch, Logstash, Kibana)

**Version Control & CI/CD:** Git, GitHub, Bitbucket, Jenkins, GitLab CI/CD

## Education

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**University Of North Texas**

01/2020 – 08/2021

*Master of Science in Computer Science*

*Denton, Texas*

**SR University**

06/2015 – 04/2019

*Bachelor of Science in Computer Science and Engineering*

*Warangal, India*