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Description automatically generatedT**EJASRI KOTIPALLI**

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[Portfolio](https://tejasri-k249.github.io/Tejasri_Creation/)  | [GitHub](https://github.com/TejaSri-k249)

**PROFESSIONAL SUMMARY**

Over 8 years of professional experience in Java/J2EE full stack technologies across diverse industries, including banking, healthcare, and financial services, delivering high-quality solutions that meet industry-specific needs and ensure security, scalability, and performance.

* Expert in Java 8/11/17 and Spring Boot, specializing in developing scalable microservices and RESTful APIs to modernize legacy systems.
* Strong experience in Mainframe to Java migration, converting and optimizing COBOL/Mainframe applications into modern Java-based microservices.
* Deep understanding of AWS cloud services (EC2, ECS, S3, Lambda, RDS, API Gateway, Fargate, SQS) for deploying scalable and cost-efficient applications.
* Extensive expertise in PostgreSQL and NoSQL databases (MongoDB, DynamoDB, Cassandra) for high-volume transactional data handling, schema optimization, and indexing strategies.
* Proficient in event-driven architecture with Apache Kafka and RabbitMQ, ensuring asynchronous communication and real-time data streaming between microservices.
* Implemented authentication and authorization mechanisms using Spring Security, OAuth2, and JWT, ensuring robust security and compliance.
* Hands-on experience with CI/CD pipelines using GitLab CI/CD, Jenkins, Terraform, and Docker, automating deployment, testing, and infrastructure provisioning.
* Worked in Agile/Scrum environments, collaborating with cross-functional teams to transition legacy systems into microservices architecture.
* Experience in Test-Driven Development (TDD) and Behavior-Driven Development (BDD), implementing automated testing using JUnit, Mockito, Cypress, Selenium, and Postman.
* Proficient in frontend technologies (React.js, Angular, HTML, CSS, JavaScript) for building and maintaining interactive user interfaces in healthcare applications.
* Familiar with healthcare insurance workflows, including Medicare and Medicaid claims processing, ensuring compliance and efficiency in system transformation.
* Strong problem-solving and debugging skills, optimizing API response times, JVM memory management, and database queries to enhance system performance.
* Hands-on experience with Kubernetes for container orchestration, managing scalable deployments across multiple environments.
* Implemented observability and logging using Splunk, ELK Stack (Elasticsearch, Logstash, Kibana), and AWS CloudWatch, ensuring proactive monitoring and quick issue resolution.
* Developed scalable ETL pipelines using Apache Spark, PySpark, and Airflow, handling large-scale data transformations and processing for analytics.
* Experience in Infrastructure as Code (IaC) solutions using Terraform and CloudFormation, enabling automated, repeatable deployments.
* Epertise in refactoring and reengineering monolithic applications into highly scalable microservices architecture, improving system efficiency and maintainability.
* Implemented caching strategies using Redis and Memcached, reducing database load and optimizing response times for high-traffic applications.
* Strong knowledge of API gateway design and management, implementing rate limiting, load balancing, and request authentication to enhance system security and performance.

**TECHNICAL SKILLS**

* **Programming Languages:** Java, JavaScript, TypeScript, Scala, COBOL
* **Backend Technologies & Frameworks:** Spring Boot, Spring MVC, Spring Cloud, Spring Security, Spring Data, Spring Batch, Hibernate, JPA, Microservices Architecture
* **Frontend Technologies & Frameworks:** React.js, Angular, Node.js, HTML5, CSS3, Bootstrap, Material UI, Redux, TypeScript
* **Databases**: MySQL, PostgreSQL, MongoDB, Cassandra, DynamoDB, DB2, SQL Server
* **Messaging & Event-Driven Architectures:** Apache Kafka, RabbitMQ, ActiveMQ, Azure Event Hubs, JMS
* **Cloud & DevOps:** AWS Lambda, EC2, S3, API Gateway), Azure (Virtual Machines, Azure Kubernetes Service (AKS), Blob Storage, Event Hubs, Functions, Azure DevOps, Azure CLI), GCP Cloud Services
* **Containerization & Orchestration:** Docker, Kubernetes, OpenShift
* **CI/CD & Automation:** Jenkins, GitLab CI/CD, CircleCI, ArgoCD, Helm, Terraform, Ansible
* **Monitoring & Logging:** ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Splunk, Azure Monitor
* **Mainframe Technologies:** COBOL, JCL, DB2, CICS, VSAM
* **Testing Frameworks & Tools:** JUnit, Mockito, TestNG, Cypress, Selenium, Postman (API Testing)
* **Version Control & Collaboration:** Git, GitHub, GitLab, Bitbucket, SVN, JIRA
* **Operating Systems:** Linux, UNIX, Windows, MacOS

**PROFESSIONAL EXPERIENCE**

**Client: Costco IT - Seattle, WA. FEB 2023 - Present**

***Role: Sr. Software Developer***

**Description:** Designed and implemented a cutting-edge, event-driven microservices-based platform for **Costco IT**, modernizing enterprise operations, improving real-time inventory management, and streamlining order processing. The platform supported **high transaction volumes with low latency**, ensured **data security and compliance**, and delivered **superior system reliability and scalability** to enhance Costco's digital infrastructure.

**Responsibilities:**

* Designed a microservices architecture with Spring Boot and Spring Cloud, utilizing advanced patterns such as distributed tracing, service mesh, and fault-tolerant circuit breakers to ensure seamless interoperability and system resilience.
* Designed and developed microservices-based applications using Java (17/11/8), Spring Boot, Spring Cloud, and Spring MVC, implementing distributed tracing, service mesh, and fault-tolerant mechanisms for high availability and reliability.
* Migrated COBOL/Mainframe applications to modern Java microservices architecture, ensuring scalability, performance, and maintainability.
* Developed and optimized RESTful APIs using Spring Boot and Spring WebFlux, improving performance, scalability, and modularity for enterprise applications.
* Implemented event-driven architecture using Apache Kafka, handling real-time data streaming, pub-sub messaging, and distributed processing.
* Developed authentication and authorization frameworks using Spring Security, OAuth2, and JWT, ensuring compliance with enterprise security standards.
* Integrated NoSQL databases like MongoDB, Cassandra, and DynamoDB for high-performance, low-latency data processing, implementing advanced indexing and caching strategies.
* Engineered SQL databases, specifically PostgreSQL and MySQL, optimizing stored procedures, indexing strategies, and query performance tuning for large-scale transactional data.
* Developed and maintained high-performance RESTful APIs and microservices with Spring Boot and Spring Data, ensuring modularity, scalability, and maintainability.
* Implemented caching strategies using Redis and Memcached, improving API performance and reducing database load.
* Automated CI/CD pipelines with Jenkins, GitLab CI/CD, and Terraform, enabling seamless deployments, rollback mechanisms, and infrastructure as code (IaC).
* Containerized microservices using Docker and orchestrated them using Kubernetes and Helm for dynamic scaling and efficient deployment across multiple cloud environments.
* Utilized monitoring and logging tools including ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Splunk, and AWS CloudWatch, ensuring application observability and proactive issue resolution.
* Developed and executed unit, integration, and end-to-end tests using JUnit, Mockito, Cypress, and Selenium, following TDD and BDD methodologies to ensure high-quality, reliable software.
* Designed and optimized SQL queries, stored procedures, and indexing strategies for PostgreSQL and MySQL databases, ensuring efficient data retrieval and management for high-transaction applications.
* Developed and deployed containerized applications with Docker and Kubernetes, leveraging Helm charts and automated scaling techniques for high availability.
* Experienced in GraphQL API development with Spring Boot, enabling efficient data querying and reducing network payload.
* Implemented scalable logging and error-tracking solutions using ELK Stack (Elasticsearch, Logstash, Kibana) and AWS CloudWatch for monitoring and debugging distributed systems.
* Worked in Agile/Scrum environments, participating in sprint planning, backlog grooming, and collaborating with cross-functional teams to enhance software development efficiency.
* Mentored junior developers and conducted code reviews, ensuring adherence to best practices in microservices development, API security, and cloud-based architecture.

**Environment:** Java (8/11/17), Spring Boot, Spring Cloud, Spring MVC, Spring Security, React.js, Angular, Node.js, PostgreSQL, MongoDB, Cassandra, DynamoDB, Kafka, RabbitMQ, GraphQL, Redis, Hibernate, MySQL, Docker, Kubernetes, Terraform, Jenkins, GitLab CI/CD, ELK Stack, Prometheus, Grafana, OAuth2, JWT, SonarQube, Linux, UNIX, Windows, COBOL/Mainframe, SQL optimization, Stored Procedures, Microservices architecture, API Gateway, Service Mesh, API Gateway, Circuit Breakers, and Cloud-Native Development.

**Client: Delta Dental Ins, San Francisco, CA Dec 2020 – Jan 2023**

***Role: Associate L2 Software Developer***

**Description:** Designed a scalable web application with a React frontend and Spring Boot backend, integrating microservices and data streaming technologies to manage large-scale data.

**Responsibilities:**

* Developed reusable React components to enable efficient and consistent user interactions across the application, ensuring maintainability and faster development for future features.
* Designed and developed Java-based microservices using Spring Boot and Spring Cloud, ensuring scalability, modularity, and high availability in healthcare applications.
* Developed RESTful APIs for seamless communication between microservices and frontend applications, enabling secure and efficient exchange of patient and insurance data.
* Built microservices-based solutions for medical claims processing, policy administration, and patient data management, automating workflows and improving operational efficiency.
* Implemented real-time event-driven architectures using Kafka, ensuring low-latency and high-throughput transaction processing for medical claims.
* Optimized search capabilities using Elasticsearch, enhancing claims adjudication and medical record retrieval for faster data access.
* Integrated third-party healthcare APIs and EDI transactions (X12 837, 835, HL7), ensuring seamless interoperability with external healthcare providers and insurance networks.
* Designed and implemented Azure cloud solutions, leveraging Azure Kubernetes Service (AKS), Azure Functions, API Management, Azure Blob Storage, and Azure Event Hubs.
* Secured authentication and authorization using Spring Security, OAuth2, and JWT-based authentication, ensuring compliance with HIPAA and HL7 security standards.
* Developed dynamic frontend interfaces using Node.js and JavaScript, integrating with backend microservices for enhanced user experience in healthcare applications.
* Optimized database performance by implementing indexing, query optimization, and partitioning strategies for handling large-scale medical and insurance datasets.
* Deployed and managed containerized microservices using Docker and Kubernetes on Azure, ensuring efficient resource management and auto-scaling.
* Implemented monitoring and logging using Elasticsearch, Logstash, and Kibana (ELK Stack), Azure Monitor, and Prometheus, ensuring real-time system health tracking and anomaly detection.
* Developed real-time data streaming solutions using Kafka and Azure Event Hubs, enabling real-time claim validation and fraud detection mechanisms.
* Led Agile development teams, participating in sprint planning, daily stand-ups, backlog grooming, and mentoring junior developers for continuous technical excellence.
* Enhanced API performance and scalability by implementing circuit breaker patterns and distributed caching using Redis, reducing latency in high-traffic healthcare applications.
* Implemented automated CI/CD pipelines using Azure DevOps, enabling seamless build, test, and deployment workflows for microservices.
* Developed healthcare analytics dashboards using Node.js and JavaScript, integrating with Elasticsearch and Kafka for real-time insights into claims processing trends and fraud detection alerts.
* Optimized microservices communication using gRPC and asynchronous messaging patterns, improving efficiency and resilience in distributed healthcare systems.
* Implemented Blue-Green and Canary deployments on Azure Kubernetes Service (AKS), ensuring zero-downtime releases and enhanced rollback strategies.
* Integrated advanced monitoring solutions with Azure Application Insights, enabling proactive issue detection and improved system observability.
* Conducted technical architecture reviews and code quality assessments, ensuring adherence to best practices, security guidelines, and HIPAA compliance across all microservices.

**Environment:** Java, JavaScript, TypeScript, Spring Boot, Spring Cloud, Node.js, Kafka, Node.js, Azure (Azure Kubernetes Service, Azure Functions, Azure API Management, Azure Event Hubs, Azure Blob Storage), Docker, Kubernetes, PostgreSQL, MySQL, Elasticsearch, Spring Security, OAuth2, JWT, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Azure Monitor, Git, Bitbucket, Jenkins , Agile (Scrum, Kanban), CI/CD Pipelines

**Client: Webster Bank – Stamford, Connecticut Dec 2018 – Nov 2020**

***Role: Software Developer***

**Description:** I Developed a secure and scalable banking system, optimizing transactions, account management, and loan processing while ensuring compliance and reliability.

**Responsibilities:**

* Developed and maintained core banking microservices using Java, Spring Boot, and Spring Cloud, ensuring secure and high-performance transaction processing.
* Designed and implemented RESTful APIs for account management, loan processing, and payment services, enabling seamless third-party financial integrations.
* Developed and optimized credit risk assessment models, leveraging SQL and NoSQL databases (PostgreSQL, Cassandra, Elasticsearch) to analyze large volumes of financial data.
* Implemented authentication and authorization mechanisms using Spring Security, OAuth2, and JWT-based authentication, ensuring protection of sensitive financial transactions.
* Integrated and managed payment gateways (Visa, Mastercard, PayPal, Stripe) for real-time payment processing and fraud detection.
* Developed large-scale banking transaction processing jobs using Spring Batch, ensuring compliance with financial regulations and optimizing performance.
* Implemented event-driven architecture using Kafka and RabbitMQ, enabling real-time transaction processing, fraud detection, and anomaly alerts.
* Designed and optimized high-volume banking applications using GCP (BigQuery, Cloud Run, Cloud Functions, Cloud Storage, Pub/Sub, Firestore) for scalability and high availability.
* Automated AML (Anti-Money Laundering) transaction monitoring workflows, leveraging real-time analytics and AI-based fraud detection models.
* Developed KYC (Know Your Customer) verification systems, integrating biometric authentication, document verification APIs, and machine learning models for fraud prevention.
* Optimized database performance for high-volume financial transactions by implementing indexing, query optimization, and partitioning strategies in PostgreSQL and BigQuery.
* Developed customer account dashboards using React.js, enabling real-time transaction tracking, loan status monitoring, and interactive financial reports.
* Implemented DevOps best practices using CI/CD pipelines (Jenkins, GitLab CI/CD), Docker, and Kubernetes, ensuring automated, zero-downtime deployments.
* Enhanced real-time financial data reporting and compliance monitoring using ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, and Grafana.
* Developed API-driven banking services for mobile and web banking applications, ensuring a seamless omnichannel user experience.
* Led Agile development teams, conducting sprint planning, backlog grooming, and daily stand-ups to deliver scalable, high-quality banking solutions.

**Environment**: Java, JavaScript, TypeScript, Scala, Spring Boot, Spring Cloud, Spring Security, Spring Data, Spring Batch, React.js, Redux, GraphQL , PostgreSQL, MySQL, Cassandra, MongoDB, Elasticsearch, BigQuery , Google Cloud Platform (GCP – BigQuery, Cloud Run, Cloud Storage, Pub/Sub), AWS (Lambda, S3, RDS), Docker, Kubernetes, Terraform, Jenkins, GitLab CI/CD , Apache Kafka, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana , OAuth2, JWT, Role-Based Access Control (RBAC) , Bitbucket, Window.

**Client: Tvisha Technologies - Hyderabad, India Jun 2017 – Nov 2018**

***Role: Software Developer***

**Description:** Developed a user-friendly platform focusing on dynamic forms and event handling using basic technologies.

**Responsibilities:**

* Built JSP-based forms with validation and dynamic content to create interactive user interfaces that ensured data integrity and a seamless user experience across the application.
* Created RESTful services using Spring Boot, handling JSON data to enable efficient communication between front-end and back-end, ensuring smooth integration and data transfer.
* Used Git for version control, enabling efficient collaboration and maintaining a clear history of code changes while following Agile methodologies to ensure iterative and adaptive development.
* Designed HTML and CSS components to create a responsive UI, ensuring the application looked great and functioned well across different devices and screen sizes.
* Actively participated in sprint planning and iterative development, collaborating with cross-functional teams to ensure timely delivery of features and adapting to evolving requirements.
* Implemented Spring Core for dependency injection, streamlining the management of application components and improving code modularity and testability by reducing tight coupling.
* Developed Java modules for business logic and workflows, ensuring the backend was structured to handle complex business rules efficiently and maintain flexibility for future changes.
* Exposed APIs for client-server communication, enabling seamless data exchange between the front-end and back-end systems and ensuring that all necessary functionality was accessible via well-defined endpoints.
* Wrote unit tests with JUnit to ensure the reliability and correctness of code, identifying potential bugs early in the development cycle and maintaining high-quality code throughout the process.
* Conducted peer code reviews to ensure quality deliverables and consistency with project standards. Provided feedback on coding practices, identifying opportunities for improved efficiency and maintainability.

**Environment:** Java, JSP, Spring Boot, Spring Core, Spring Data, MySQL, RESTful APIs, Git, JUnit, HTML5, CSS3, JavaScript, Agile (Scrum), Jira.

**EDUCATION**

* **University of North Texas, USA** | M.S, in Computer Science
* **Jawaharlal Nehru Technological University Kakinada**, **India** | B.Tech, in Computer Science

**CERTIFICATION**

[AWS Certified Developer – Associate Certification.](https://www.credly.com/badges/e7bb9adc-43f1-4fa1-86d8-da12e48537e1)