**Thapsi D**

**Sr. Java Fullstack Developer**

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**PROFESSIONAL SUMMARY:**

Results-oriented Software Engineer **around 7 years** of **experience** in designing and developing enterprise-level software solutions, including secure and scalable systems. Proficient in all phases of the Software Development Life Cycle (SDLC), with a strong focus on modern architectures such as Java, Spring Boot, Kafka, and front-end frameworks (Angular, React JS) to deliver high-impact technology projects. Adept at collaborating with cross-functional stakeholders to deliver high-impact technology projects on time and within budget. Passionate about leveraging technical skills to design future-ready systems that align with organizational goals and security requirements.

**Key Skills:**

* **Full SDLC Expertise**: Proficient in managing all phases of the Software Development Life Cycle (**SDLC**), including Requirements Gathering, Analysis, Design, Development, Testing, Deployment, and Maintenance, ensuring delivery within **Agile** and Waterfall methodologies.
* **Technical Proficiency in Modern Architectures**: Extensive experience in developing and deploying multi-tiered applications using **Java, J2EE, Spring Boot**, and integrating with **Kafka**for high-performance, real-time messaging systems. Skilled in converting business requirements into scalable, maintainable solutions.
* Expert in core **Java, J2EE** technologies like**Spring IOC, AOP, Spring Transactions, Spring MVC, Spring Batch, Spring Security, Spring Cloud, Spring Boot, Microservices, JMS, Hibernate, JPA, PL/SQL, JDBC, JSP.**
* **Web Development and Front-End Proficiency**: Familiarity with building intuitive, responsive UIs using JavaScript, HTML, and CSS, ensuring seamless user experience across devices.
* Designed microservices with well-defined APIs using **HTTP/REST**and**gRPC,** enabling seamless interactions between services and integration with **Angular** and **React** **JS** front-end.
* **Web Technologies**: Experienced in **Angular, NgRx,** React JS, Redux**,** HTML5, CSS, JavaScript, and jQuery for building dynamic, responsive user interfaces.
* **Core Java concepts** like Multithreading, Collection, OOPS, Data Structures & Algorithms and Exception Handling.
* **Continuous Integration/Continuous Deployment (CI/CD)**: Expertise in implementing CI/CD pipelines (using GitHub actions) to enable faster, reliable, and automated software delivery.
* **Robust Design and Architecture Expertise**: Skilled in applying **J2EE Design Patterns**and modern frameworks to create extensible, maintainable solutions. Experienced in designing loosely coupled microservices and modular components that evolve with business needs.
* **Database and Data Management**: Proficient in database technologies, **SQL/NoSQL**, with a focus on data modeling, query optimization, and performance tuning for data-intensive applications.
* Hands-on experience with **Oracle** Database, including writing complex **PL/SQL queries**, **stored procedures**, and performance tuning using **indexing** and execution plan analysis for high-volume transactional systems.
* **Cloud and DevOps Practices**: Hands-on experience with **cloud platforms**and containerized applications and deployment processes using Docker and Kubernetes for high-availability systems.
* **Collaborative Teamwork**: Helped junior developers, encourages collaboration, and promotes knowledge sharing within cross-functional Agile teams.
* **Problem Solving and Innovation**: Strong analytical and problem-solving skills with a demonstrated ability to tackle complex challenges and develop innovative solutions tailored to business goals.
* **Commitment to Continuous Learning**: Passionate about continuous learning and staying updated with emerging technologies to build resilient, future-proof systems.

**TECHNICAL SKILLS:**

* **Programming Languages**: Java (Core Java, Java 8, Java 11), JavaScript, SQL
* **Web Technologies**: HTML5, CSS, CSS Grid, Tailwind CSS, RESTful APIs, SOAP, JSON, XML, Swagger (OpenAPI)
* **Frameworks & Libraries**:
  + **Back-End**: Spring (Boot, MVC, Batch, Security, Data JPA, Config, Integration), Hibernate, Node.js
  + **Front-End**: React JS, Redux, Angular
* **Databases**: MySQL, MS SQL, Oracle, DynamoDB, MongoDB, Cassandra
* **Caching & Integration Platforms**: Redis, ElasticCache
* **Messaging & Streaming**: Apache Kafka, AWS SNS, Message-Driven Architecture (Asynchronous Processing)
* **Cloud & DevOps**:
  + **AWS**: EC2, Lambda, SNS, DynamoDB, ElasticCache, ECS
  + **Containerization & Orchestration**: Docker, Kubernetes
  + **CI/CD**: Jenkins, Git, Maven, GitHub
* **Testing & Monitoring**: JUnit, Mockito, Spring Boot Actuator, Postman
* **Development Tools**: IntelliJ IDEA, Git, GitHub, Maven
* **Project Management & Collaboration**: JIRA, Agile (Scrum), Peer Code Reviews
* **IDE’s:** Eclipse, IntelliJ, Visual Studio.
* **Monitoring Tools:** Splunk dashboard.
* **Security**: JWT, OAuth2
* **Concepts & Patterns**:
  + **Programming**: Object-Oriented Programming (OOPS), Collections, Exception Handling, Multithreading, Value Objects, Dependency Injection
  + **Design Patterns**: MVC, DAO, DTO, Factory, Singleton, Template, Abstract Factory, API gateway.
  + **Architecture**: Microservices Architecture, Distributed Systems, SDLC, CRUD Operations
* **Application Servers**: Apache Tomcat
* **Operating Systems**: Windows, Linux
* **Advanced Java Features**: Streams, Lambda Expressions, Functional Interfaces, Optional, ConcurrentHashMap

**PROFESSIONAL SUMMARY:**

**Client:** Delta Airlines **Location:** Texas, USA

**Role:** Software Engineer **October 2022 - Present**

**Project Overview:**

Developed and maintained a cloud-native Booking Management System for Southwest Airlines to support critical booking operations such as "Manage Booking," "Add Passengers to Booking," "Change Flights," "Check-In Process," and "Flight Status Updates." Focused on integrating downstream systems for real-time flight data, processing booking modifications, and delivering notifications using Java, Spring frameworks, and AWS technologies in an Agile environment.

**Responsibilities:**

* Designed and implemented microservices using **Java 11, Spring Boot,** and **Spring Batch** to streamline booking workflows, including adding passengers, modifying flight schedules, and canceling bookings for over 8K daily transactions.
* Engineered a booking change workflow that retrieved real-time flight availability from downstream systems via **RESTful APIs** (documented with **Swagger**), booked new flights based on customer input, canceled prior bookings, and computed remaining fares with custom logic.
* Deployed Spring Boot based Microservices Docker containers Using **AWS EC2** services and using AWS admin console.
* Implementing or exposing the **Microservices** based on RESTful API utilizing Spring Boot with Spring MVC.
* Implemented Restful Web Services in Spring Boot for consuming, producing **JSON/XML** Data from End points.
* Developed the Spring Features like **Spring MVC**, Spring Boot, Spring Batch, Spring Security, and Spring Integration.
* Secured Rest API’s by implementing OAuth2 tokens-based authorization schema by Spring Security.
* Used Web services (**SOAP, REST**) for transmission of large blocks of data over **HTTP**.
* Integrated **AWS SNS** to deliver real-time notifications for booking confirmations and updates, achieving a 99.7% delivery rate across 15K+ daily messages.
* Leveraged **DynamoDB** to manage booking and passenger data, optimizing read/write performance for 20K+ records daily with sub-second latency.
* Utilized AWS **Lambda** to process serverless booking updates, cutting operational overhead by 18% during peak travel periods.
* Implemented **ElasticCache** to cache flight availability data, reducing API response times by 12% and minimizing downstream system load.
* Deployed microservices on **ECS** with Kubernetes for scalability, maintaining 99.9% uptime during high-traffic travel seasons.
* Built **message-driven** workflows to handle **asynchronous** booking updates, ensuring reliability during system spikes.
* Managed version control with **Git using GitHub**, enabling efficient branching, peer code reviews, and continuous integration.
* Used IntelliJ for development and debugging Spring Boot applications. Streamlined **CI/CD** pipelines in an **Agile** environment, enabling rapid feature deployment and iteration.
* Implemented application monitoring using **Spring Boot Actuator** for exposing custom and system health metrics.

**Environment**: Java 11, Spring (Boot, Batch, REST), RESTful APIs, Swagger, AWS (Lambda, SNS, DynamoDB, ElasticCache, ECS, Kubernetes), JUnit, Git, GitHub, Agile

**Client:** Accenture **Location:** India

**Role:** Java Full Stack Developer **May 2020 - July 2022**

**Project Overview:**

Developed and maintained an Order Management Service for retail customers, enabling seamless processing of single and bulk orders, cancellations, returns, and order reporting. The solution was built to handle high transaction volumes with reliability and performance, leveraging a microservices architecture deployed on-premises. Integrated components streamlined order workflows, provided real-time processing, and supported reporting capabilities for retail clients. Key enhancements included optimizing data handling, improving API performance, and automating build processes in an Agile environment.

**Responsibilities:**

* Designed and developed RESTful microservices using **Core Java**, **Java 11**, **Spring Boot**, and **Spring MVC**, implementing business logic with dependency injection and annotations for order processing and reporting.
* Built scalable APIs using **Spring REST** to handle order requests, improving throughput by 20% for bulk transactions by optimizing request handling logic.
* Developed a responsive front-end using **React** and **Redux** to provide an intuitive user- Built reusable **React components** for order management, including order submission, tracking, and reporting interfaces, improving user experience and reducing navigation time by **30%**.
* Managed global state with **Redux** for consistent data flow across components, ensuring seamless updates for real-time order status and reporting.
* Integrated front-end with back-end **RESTful APIs**, using **Axios** for HTTP requests to fetch and update order data dynamically.
* Utilized **MS SQL** for high-performance storage of order and customer data, optimizing database queries with indexing and partitioning to reduce retrieval time by 25%.
* Implemented asynchronous processing with **Apache Kafka** to manage high-volume order workflows, resolving delays by distributing load across queues and ensuring real-time updates.
* Deployed containerized services using **Docker** and **Kubernetes**, scaling pods dynamically to handle peak loads and improving fault tolerance.
* Automated **CI/CD** pipelines with **Jenkins**, **Git**, and **Maven**, reducing deployment time by 40% and eliminating manual errors in release cycles.
* Monitored application performance and logs using **Splunk**, adding custom dashboards to pinpoint bottlenecks, which cut troubleshooting time by 30%.
* Secured services with role-based access control and encryption using **Spring Security**, adhering to enterprise standards and resolving vulnerabilities in legacy connections.
* Wrote unit and integration tests with **JUnit**, achieving 90% code coverage and ensuring stability during enhancements.
* Managed configurations with **Spring Config** files, enabling dynamic updates without redeployment and simplifying maintenance.
* Collaborated with teams in an **Agile** environment using **JIRA**, participating in **daily standups, sprint planning**, and retrospectives to align on priorities.
* Optimized the caching mechanism order data retrieval, improving response times by 15% and reducing database load during peak usage.

**Environment**: Core Java, Java/J2EE, Spring (Boot, MVC, JPA, REST, Security, Config), React, Redux, Tailwind CSS, Axios, MS SQL, Apache Kafka, Docker, Kubernetes, Git, Jenkins, Maven, Splunk, JUnit, RESTful APIs, HTML, CSS, JavaScript, Agile

**Client:** Flipkart **Location:** India

**Role:** Java Full Stack Developer **May 2018 - April 2020**

**Project Overview:**

Worked on Flipkart’s customer-facing e-commerce platform, contributing to the design and development of scalable RESTful microservices using Java 8, Spring Boot, and Node.js, integrated with an Angular front-end. Developed responsive UI components for order management, cart, and user dashboards using Angular with NgRx. Implemented secure APIs with Spring Security (JWT, OAuth2), optimized backend performance with Hibernate/JPA and MySQL, and maintained over 90% unit test coverage. Followed Agile practices in a CI/CD environment using Docker, Kubernetes, Jenkins, and Git.

**Responsibilities:**

* Designed and developed **RESTful microservices** using **Core Java**, **Java 8**, **Spring Boot**, and **Node.js**, leveraging advanced Java features like **Streams**, **Lambda Expressions**, **Functional Interfaces**, and **Optional** to enhance code readability performance; integrated with Angular-based front-end for seamless full-stack functionality.
* Implemented **CRUD operations** (Create, Read, Update, Delete) for order and customer data management across **microservices**, ensuring robust back-end data handling and **dynamic front-end** rendering with Angular components, improving data retrieval speed by 20%.
* **Built responsive front-end interfaces** using **Angular** with **NgRx** for state management, creating reusable components for order management, cart functionality, and user dashboards, enhancing user interaction speed by 25%.
* Utilized **Value Objects** and Core Java APIs (e.g., **Collections**, **ConcurrentHashMap**) for efficient data structures and smooth string comparisons, reducing processing overhead by **15%**.
* Developed robust **exception handling** mechanisms using custom exceptions and **try-catch** blocks in Java for **debugging**, complemented by **Angular’s error interceptors**, ensuring graceful error recovery and detailed logging, improving system reliability by 20%.
* Developed **REST APIs** with **Spring MVC** and **Node.js**, optimizing endpoints for order processing and tracking, achieving sub-second response times for **daily transactions.**
* Ensured **cross-platform optimization** for mobile and desktop, using **Angular** with **CSS Grid** for responsive designs, improving mobile user retention by **18%**.
* Implemented **Spring Security** with **JWT** and **OAuth2** to secure APIs, adhering to enterprise-grade security standards and mitigating unauthorized access risks.
* Crafted complex **SQL** **queries**, **stored procedures**, and optimized **indexing** using ORM tools like Hibernate and JPA on **MySQL**, significantly enhancing data retrieval efficiency and application performance.
* Developed and maintained robust **unit testing** using **JUnit** and **Mockito**, achieving over 90% code coverage.
* Collaborated with cross-functional teams in an **Agile (Scrum)** environment using **JIRA**, contributing to sprint planning, daily standups, and retrospectives.
* Developed and maintained process and reference documentation, ensuring knowledge transfer and operational continuity.

**Environment**: Core Java, Java/J2EE, Spring (Boot, MVC, JPA, REST, Security, Config), AngularJS, Tailwind CSS, Axios, My SQL, Apache Kafka, Docker, Kubernetes, Git, Jenkins, Maven, Splunk, JUnit, RESTful APIs, HTML, CSS, JavaScript, Agile