**Shreya Dhanala**

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**Summary**

* Expertise in analyzing, designing, developing, testing, and deploying Web and Enterprise applications using **Java/J2EE technologies**.
* Skilled in building and testing RESTful Web APIs with **Spring, Spring Boot, and Postman**.
* Extensive experience with **Spring JDBC, Spring Hibernate ORM, Docker containers, and JPA**.
* Proficient in creating and consuming Web Services **(RESTful, SOAP, JAX-RS, JAX-WS, JAX-RPC, JAXR).**
* Strong background in building Web and Enterprise applications with technologies such as **JDBC, Servlets, Web Sockets, JSP, EJB, JSF, JNDI, and JMS.**
* Experienced in implementing frameworks **like Struts, Spring, JSF, and AJAX (RichFaces, MyFaces) with ORM tools like Hibernate.**
* Expertise in front-end development using **React** and **dynamic UI creation**.
* Proficient in containerization and deployment using **Docker and Kubernetes**.
* In-depth experience with AWS services **EC2, ECS, S3, Lambda, VPC, IAM, Load Balancing** for scalable and secure cloud solutions.
* Expertise in Azure technologies including **VMs, AKS, ACI, and CDN** for cloud application optimization.
* Strong knowledge of microservices**, backend logic, and REST APIs in Core Java and Node.js**.
* Extensive experience with relational databases **MySQL, PostgreSQL, SQL Server, Oracle** and database integration via JPA and Hibernate.
* Experienced in CI/CD pipelines using **Jenkins, Bamboo, and Elastic** Cloud for continuous integration and deployment.
* Skilled in UML modeling, design patterns Factory, Observer, Singleton and agile methodologies for all phases of the SDLC.
* Proven ability to work with clients to resolve issues, improve application environments, and ensure successful project delivery.

**Technical Skills**

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| **Programming Languages** | Java 8/11, Python, JavaScript, TypeScript, SQL, PL/SQL |
| **Frameworks** | Spring Boot, Spring MVC, Spring Cloud, Spring Security, Spring Data, Spring Batch, Struts, React.js, Angular 14/11, Node.js, Express.js |
| **Databases** | Oracle DB, MySQL, PostgreSQL, MongoDB, DynamoDB, Cassandra |
| **Cloud Platforms** | AWS (EC2, S3, Lambda, RDS, CloudWatch, EKS, ECS), Azure (VMs, AKS, Azure Functions, Storage), Terraform |
| **DevOps** | Jenkins, Docker, Kubernetes, Splunk Cloud |
| **Testing** | JUnit, Mockito, Jest, Jasmine, Karma, React Testing Library |
| **Messaging** | Apache Kafka, RabbitMQ, Amazon Kinesis |
| **Web Servers** | Apache Tomcat, JBoss, WebLogic, WebSphere |
| **Web Services** | RESTful APIs, JAX-RS, JAX-WS, Apache CXF, WSDL, SoapUI |
| **Methodologies** | Agile (Scrum, Kanban), RUP, Waterfall |
| **Tools** | IntelliJ, VS Code, Eclipse, MySQL Workbench, Tableau, Log4j, Elasticsearch, Kibana, SonarQube, SLF4j |

**Professional Experience**

Client: Fedex, Memphis, TN Apr 2024 - Present

Full Stack Developer

**Responsibilities:**

* Developed **RESTful APIs** and services using **Spring Boot** and **Spring MVC** to implement core e-commerce functionalities, including product catalog management, order processing, and user authentication.
* Designed and implemented **MongoDB** database schemas for efficient data storage, retrieval, and scalability in healthcare applications.
* Implemented authentication and authorization using **Spring Security**, ensuring secure access control and protection of sensitive customer data in e-commerce transactions.
* Integrated e-commerce applications with AWS cloud services such **as EC2, S3, RDS** for scalable infrastructure, storage, and database management in a cloud-native environment.
* Developed responsive user interfaces for e-commerce applications using **React**, **HTML5**, **CSS3**, and **JavaScript**, ensuring a modern and intuitive shopping experience.
* Built reusable React components with **TypeScript**, ensuring type safety and static type checking throughout the development process.
* Utilized React hooks such as useState, useEffect, useContext, useRef with **TypeScript** to manage component state, side effects, context, and references.
* Implemented type-safe unit tests and integration tests for React components using **Jest** and **React Testing Library** with TypeScript.
* Developed and maintained CI/CD pipelines using **Jenkins** for automated build, test, and deployment processes of e-commerce applications.
* Leveraged **RabbitMQ** for asynchronous messaging between microservices and components, enabling scalable and resilient message processing.
* Integrated **Spring Batch** for batch processing tasks like inventory updates, order processing, and ETL (Extract, Transform, Load) operations.
* Conducted data analysis and optimized queries on the **Snowflake** data warehousing platform for enhanced performance and actionable business insights.
* Configured and optimized **AWS EC2** instances, **S3** storage, and utilized **Lambda functions** for data processing, image resizing, and background tasks.
* Integrated **Spring Data MongoDB** for efficient data access in Java applications, using Spring repositories and **MongoDB** templates for CRUD operations.
* Monitored application performance and operational insights using **AWS CloudWatch** and the **ELK stack** (Elasticsearch, Logstash, Kibana) for real-time troubleshooting.

**Environment:** Java 11, Spring Boot, Spring MVC, React 16, TypeScript, MongoDB, RabbitMQ, AWS EC2, AWS S3, AWS Lambda, AWS RDS, AWS CloudWatch, Snowflake, Spring Security, Spring Batch, Jenkins, Jest, React Testing Library, Elasticsearch, Kibana, Web Services (REST API, SOAP), HTML5, CSS3, JavaScript, XML, JSON, JIRA.

**Client: State of Missouri, Jefferson, MO Aug 2022 – Mar 2024**

**Full Stack Developer**

**Responsibilities:**

* Proficient in **AGILE** methodology for project management, including requirements gathering, design, development, and testing.
* Experienced in Test-driven development (TDD) and Agile estimation to ensure high-quality code and effective project timelines.
* Expertise in **GraphQL** for building APIs, along with advanced **Java 17** features like Lambdas, Streams, and Completable Futures.
* Implemented **Liquibase** for version-controlled database schema changes, facilitating seamless updates and rollbacks.
* Managed and executed the migration of cloud services from Azure to AWS, utilizing tools such as **AWS CloudFormation, EC2, S3, and Azure Resource Manager** to ensure seamless transfer, reduce infrastructure costs, and improve overall system performance and scalability.
* Developed and tested microservices using **Spring Boot, JUnit, Mockito** and integrated with GraphQL and REST APIs.
* Extensive experience with **MongoDB** for designing **NoSQL** data models, optimizing queries, and implementing replication and sharding.
* Proficient in containerization using **Docker** and **Kubernetes** for scalable microservices deployment and orchestration.
* Built interactive UIs with **Angular 14**, **React**, **HTML5, CSS3**, and **JavaScript**, and tested using Jasmine and Karma.
* Developed CI/CD pipelines using **Jenkins, Git** and **Maven** to automate build, test, and deployment processes.
* Experience with WebSocket communication for real-time data transfer and **RabbitMQ** for asynchronous messaging between microservices.
* Skilled in **Python** for automating tasks, batch processing, data transformation, and integrating with **AWS Lambda** for serverless execution.
* Integrated **Terraform** for Infrastructure as Code (IAC) and utilized **SonarQube** and **Log4j** for code quality analysis and logging.
* Expertise in Spring Security for implementing authentication and authorization mechanisms.
* Strong knowledge of **Hibernate, JPA, SQL, PL/SQL** and relational databases like **Oracle and MySQL.**
* Experienced in using JIRA for project tracking and collaboration across teams.

**Environment:** Java 17, Spring Boot, Spring MVC, Angular 14, React, GraphQL, MongoDB, AWS (EC2, S3, Lambda, RDS), Jenkins, Docker, Kubernetes, JPA, Hibernate, JUnit, Mockito, Python, JIRA, Terraform, SonarQube, RabbitMQ, WebSocket, Log4j, ElasticSearch, Git, Maven, Postman, HTML5, CSS3, JavaScript, SQL, PL/SQL, Oracle, MySQL.

**Client - Frost Bank, San Antonio, TX Feb 2020 – Jul 2022**

**Java Developer**

**Responsibilities:**

* Led the design and implementation of scalable microservices using **Java 11**, **Spring Boot**, and **Hibernate**, focusing on inventory management, customer service, and order processing for retail operations.
* Developed responsive user interfaces with **React.js**, **HTML5**, **CSS3**, **TypeScript**, and **SASS**, ensuring cross-browser compatibility and optimal user experience.
* Championed **Agile** development practices, leading sprint planning, daily stand-ups, and retrospectives, while managing project tasks and workflows using **JIRA**.
* Designed and implemented **RESTful APIs** with **Java 11**, **Spring MVC**, and **JSTL**, enabling efficient integration between front-end and back-end systems.
* Utilized **Docker** and **Kubernetes** for containerizing and orchestrating microservices, enhancing system reliability, fault tolerance, and scalability.
* Developed and delivered **DevOps** training materials, guiding multiple teams on **Azure** **DevOps**, Jenkins, Octopus, and other platforms for both on-premises and cloud architectures.
* Engaged with **Azure** **Cloud** **IAAS**, utilizing components like Delta Lakes, Azure blob storage, Notebooks, DBFS, **Spark**, **Scala**, Data Factory, and Cosmo DB for cloud-based solutions.
* Automated order processing workflows with **Java 11** and **Spring Boot**, reducing errors by 90% and improving order fulfillment speed by 60%.
* Implemented **secure payment processing systems** using **Spring Security**, ensuring PCI DSS compliance and minimizing fraud incidents.
* Developed CI/CD pipelines with **Jenkins** and **GitHub** for continuous integration, automated testing, and rapid deployment of new features and bug fixes.
* Applied Test-Driven Development (TDD) methodologies using **JUnit**, **Mockito**, **Karma**, and **Jasmine** for both backend and frontend testing.
* Migrated legacy frontend systems to **React**, resulting in a 30% increase in user engagement and a 20% improvement in online sales.
* Integrated **Kafka** for real-time data streaming, ensuring scalable and efficient data processing across microservices.
* Utilized **Maven** for build automation, dependency management, and integration with **Spring**, **Hibernate**, and **JUnit**, improving development efficiency.
* Designed and implemented a customer feedback system with **Java 11** and **Spring MVC**, boosting customer trust and increasing sales by **25%**

**Environment:** Java 11, Spring Boot, Hibernate, React.js, Azure Cloud IAAS,Azure DevOps Jenkins, Maven, Docker, Kubernetes, MySQL, PostgreSQL, Kafka, JUnit, Mockito, HTML5, CSS3, TypeScript, SASS, JSTL, REST APIs, Spring Security, Spark, RabbitMQ, Microservices, JIRA, Karma, Jasmine, Scala, Oracle BPM, SOAP, WSDL, Eclipse, Apache Tomcat.

**Client-WNS GLOBAL, Mumbai, India Feb 2019 – Jan 2020**

**Java Developer**

**Responsibilities:**

* Designed and implemented scalable applications using **Java 11** and **Spring** technologies, improving system efficiency and user satisfaction in telecommunications services.
* Developed dynamic, responsive web applications with **HTML**, **CSS**, **JavaScript**, and **Angular 8**, enhancing client engagement and usability.
* Built robust backend services using **Java 11**, **Spring MVC**, **Spring IOC**, and **Spring Cloud**, creating microservices to ensure high performance and scalability.
* Created **RESTful APIs** using **Spring MVC**, facilitating seamless integration between frontend and backend systems.
* Collaborated with cross-functional teams following **Agile methodologies** ensuring timely delivery and alignment with project goals using **Asana** for project management.
* Utilized **GitHub** for version control, enabling efficient collaboration and code management, with **JWT** implemented to secure web applications.
* Managed retail data using **Oracle DB**, executing complex SQL queries and utilizing **JTA** for transaction management in distributed systems.
* Managed **AWS infrastructure**, focusing on database services on **EC2** for cloud integration.
* Implemented **Hibernate mappings** (one-to-many, many-to-one, one-to-one) for data persistence using annotations.
* Integrated **AWS services** such as **S3, EC2, RDS, IAM, Elastic Beanstalk, VPC, Route 53, SQS** to improve application functionality.
* Configured **AWS Security Groups** to secure EC2 instances and manage network traffic.
* Integrated **Angular 8** with **Java-based RESTful services**, improving data synchronization and enhancing application security with built-in security features.
* Implemented **JMS** for asynchronous communication between services, ensuring system decoupling and efficient message handling.
* Performed API testing and documentation using **Postman** and **Swagger**, and set up CI/CDpipelines with **Jenkins** for automated testing and deployment.
* Developed high-performance telecom applications with **Java 11**, **Spring Boot**, and **Angular 8**, leading to a 20% improvement in data processing speeds and customer experience.
* Leveraged **Oracle DB**'s transaction management and security features, securing customer payment information and optimizing database performance during peak periods.
* Designed and deployed microservices using **Java 11** and **Docker** in a cloud environment, improving scalability and system reliability by 30%.
* Monitored applications using **SLF4j** for efficient troubleshooting and integrated **Spring Cloud** for modernizing microservices architecture.

**Environment:**Java 11, Spring MVC, Spring Cloud, AWS,Hibernate, JTA, Spring IOC, Angular 8, HTML5, CSS3, JavaScript, Oracle DB, RESTful API, JMS, Apache Tomcat, Jenkins, CI/CD, GitHub, Jasmine, Karma, Cucumber, JUnit, Mockito, Swagger, Postman, JWT, Azure, SonarQube, SLF4j, Asana, Docker, Eclipse.

**Education**

**Master of Science: Computer Science**

University of Memphis – Memphis, TN

**Bachelor of Engineering: Computer Science**

Vardhaman College of Engineering – Hyderabad, India