Sushmita Bahala

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Summary

- Senior Software Engineer with around 7 years of experience in analysis, development, testing, implementing Web based, Client/Server Applications with Enterprise and Distributed applications across the entire Software Development Life Cycle (SDLC).
- Extensive experience in designing and developing scalable web applications using JEE such as JMS, JDBC, JSP, Servlets, and EJB.
- Experience in building web application using various Spring Framework features like Spring IOC, Spring MVC, Spring AOP, Spring Batch, Spring Boot and Spring Security.
- Expertise in building responsive and interactive user interfaces leveraging Angular, React.JS, JavaScript, TypeScript, and HTML5.
- Proficient in Java/J2EE, Spring Framework (Boot, MVC, Core), Hibernate/JPA for building scalable and efficient backend systems.
- Proficient in crafting scalable and high-performance web applications using Java, Spring Boot, Spring MVC, and Microservices architecture.
- Experienced in database design, optimization, and SQL query writing for efficient data management (MySQL, PostgreSQL, Oracle).
- Experience in Amazon Web Services (Amazon EC2, Amazon S3, Amazon Simple DB, Amazon RDS, Amazon Elastic Load Balancing, Amazon SQS, AWS Identity and access management, AWS Cloud Watch, Amazon EBS and Amazon Cloud Front).
- Strong understanding of CI/CD pipelines, version control (Git), and automation tools (Jenkins, Maven) for streamlined development.

Education

Masters in Software Engineering | Stevens Institute of Technology, Hoboken, New Jersey, USA

Bachelors in Computer Science | Silicon Institute of Technology, Odisha, India

Technical Skills

Development Methodologies: SDLC, Agile, Waterfall, TDD
Programming Languages: Java, JavaScript, TypeScript, C++, C#, Python, Shell Scripting
Spring Frameworks: Spring MVC, Spring Boot, Spring ORM, Spring Batch, Spring Security, Spring Cloud, Hibernate
Microservices & Architecture: Microservices, Multi-threading, Java Networking, Kafka, RabbitMQ, RESTful web services
Web Development & Frontend Technologies: HTML5, CSS3, React.JS, Angular, Bootstrap5, GraphQL
Cloud & DevOps: AWS (EC2, SQS, SNS, RDS, Cloud Watch), Git, GitHub, Jenkins
Databases: Oracle, PL/SQL, MYSQL, PostgreSQL, MongoDB
IDE & Development Tools: Visual Studio Code, Eclipse, IntelliJ IDEA, Docker, Maven, Postman
Operating Systems: Windows, MAC, Linux
Certificates: AWS Cloud Practitioner Certification

Professional Experience

Charles Schwab, New Jersey, USA **Jan 2024 – Present**
Software Engineer

- Designed, developed, and supported scalable, high-performance applications across the Software Development Life Cycle (SDLC), leveraging microservices architecture with Spring Boot, Java 17, and Spring Cloud for increased scalability, availability, and fault tolerance
- Architected and developed scalable microservices using Spring Boot, Spring REST, and Apache Kafka, ensuring high availability and fault tolerance with robust inter-service communication.
- Built and maintained scalable web solutions with Java and Python, leveraging Agile/Scrum and SDLC methodologies to ensure efficient project delivery and adherence to requirements.
- Leveraged React's caching mechanisms to optimize data fetching for frequently accessed data from Java APIs, resulting in a 25% decrease in average page load time.
- Optimized application performance by leveraging Spring Data JPA's caching mechanisms to store frequently accessed data in memory, resulting in a 20% reduction in response times.
- Designed and managed complex financial data relationships using JPA and Hibernate, applying advanced data structures to ensure data integrity, consistency, and efficient persistence for high-performance applications.
- Accomplished Spring Boot applications with Spring Security, reducing security vulnerabilities and ensuring robust protection for sensitive data.
- Boosted application response time by leveraging Amazon DynamoDB for high-performance NoSQL data access, reducing latency for critical operations.
- Enhanced application deployment by 50% through the implementation of robust CI/CD pipelines leveraging Kubernetes and industry-leading tools like Jenkins or GitLab CI.
- Executed Test-Driven Development (TDD) practices and unit testing frameworks, such as JUnit, to minimize bugs during User Acceptance Testing (UAT) and System Testing.
- Facilitated Agile ceremonies for effective communication and alignment within the team, leading to an improvement in project visibility and an increase in team morale.

Transunion, India **Jul 2019 – Aug 2022**
Associate Software Developer

- Led full-stack development for various phases of SDLC, including requirement gathering, design, analysis, and code development, using Java, Spring Boot and REST APIs.
- Utilized React.js framework concepts like hooks and functional programming to create reusable and maintainable components, reducing development time.
- Accomplished Spring ORM with Hibernate taking advantage of features like Annotation metadata, Auto wiring, and Collections to implement the DAO layer with Hibernate Session Factory, HQL, and SQL.
- Designed and developed APIs leveraging microservice architecture, utilizing Spring Boot for efficient development and JMS for asynchronous communication with Kafka as the message broker.
- Developed 12 GraphQL schemas for 8 microservices, resulting in a 40% reduction in front-end development time due to standardized data access and reduced API complexity.
- Boosted data query performance by 40%, optimized indexes, and utilized aggregation pipelines in MongoDB, leading to faster report generation and user response times.
- Accelerated application delivery by 40% through implementing CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy, resulting in faster time-to-market and improved software quality.
- Performed CRUD operations like Updating, Inserting, and Deleting data in MongoDB and SQL Server and handling database access and data transmission based on RESTful web service.
- Architected and developed scalable microservices using Spring Boot, Spring REST, and Apache Kafka, ensuring high availability and fault tolerance with robust inter-service communication.
- Applied advanced data structures (arrays, linked lists, trees, graphs) and algorithms (sorting, searching, dynamic programming) to optimize system performance and solve complex computational problems in Java applications.
- Built and optimized responsive front-end solutions for fintech applications using Angular, React.JS, HTML5, CSS3, and Bootstrap, enhancing user experience, state management, and performance.
- Developed and maintained server-side components using Java, Spring Web MVC, Spring Web Flux, Servlets, JSP, JSTL, JSF, and JavaBeans, ensuring dynamic and interactive user experiences.
- Applied multi-threading and Java Networking techniques to enhance application performance, enabling efficient concurrent processing and reliable network communication. Experience in debugging and optimizing JVM performance for memory management and application scaling.

FSS Technology Inc., India **Jul 2016 – Jul 2019**
Software Engineer - I

- Led full-stack development for various phases of SDLC, including requirement gathering, design, analysis, and code development, using Java, Spring Boot and REST APIs.
- Engineered PCI DSS-compliant financial web applications using Java Spring MVC, generating over 600 reports for banking clients and enhancing functionality through PL/SQL, SQL Stored Procedures, JRXML, and JSPs integration with large databases.
- Led the design and development of over 30 innovative features, pivotal in enhancing collaboration between onshore and offshore teams.
- Applied object-oriented programming principles in both C++ and C#, implementing design patterns for code reusability, maintainability, and system scalability.
- Developed microservices using Spring Boot for cloud-based solutions, integrating with AWS (EC2, S3, RDS) and Oracle Cloud for scalable, secure, and reliable deployments.
- Implemented RESTful web services and GraphQL endpoints to optimize data retrieval and manipulation, ensuring performance and scalability through advanced data structures and algorithms.
- Integrated backend systems using Spring ORM, JPA, Hibernate, RabbitMQ, and optimized data persistence for robust system performance.
- Applied design patterns and Java features (Lambda expressions, Streams) to create scalable, maintainable code for enterprise applications.
- Led CI/CD pipeline automation with Jenkins, Docker, and AWS ECS, for efficient deployment and management of applications in cloud.
- Applied Infrastructure as Code (IaC) principles with Terraform and AWS CloudFormation, automating deployment processes and enhancing infrastructure management.
- Implemented Spring Security for secure user authentication and authorization, following OAuth2.0 standards, achieving zero security breaches.
- Utilized RDBMS technologies (DB2) to write complex SQL queries for efficient data handling and retrieval, especially in financial datasets.
- Employed Docker containers to package and deploy microservices for a fraud detection system, enabling faster deployments, improved scalability, and simplified infrastructure management.