Saramsh Khadka

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PROFESSIONAL SUMMARY

Senior Backend Developer with 6+ years of experience architecting and deploying high-performance enterprise applications. Expertise in core Java/J2EE, Spring Boot, RESTful API design, and microservices, with proven skills in optimizing Oracle database performance and implementing CI/CD pipelines using Jenkins and Github Actions. Experience with containerization using Docker/Kubernetes and caching frameworks like REDIS and Ehcache. Adept at solving complex backend problems to drive robust, scalable solutions that enhance user experience.

EDUCATION:

University of South Dakota
Master, Computer Science

PROFESSIONAL EXPERIENCE

PNC   **Jan 2024 - Present**
Full Stack Java Developer   *Farmers Branch, TX*

- Architected and deployed scalable, event-driven microservices using Core Java and J2EE, integrating them seamlessly with Angular-based SPAs to enhance user interactions.
- Engineered Kafka-driven microservices with a publish-subscribe model to ensure reliable messaging, high throughput, and effective system scalability.
- Designed and developed RESTful APIs with Spring Boot, incorporating Spring Actuator for health monitoring and improved observability in line with backend service best practices.
- Modernized backend solutions by adopting Java 17 features such as sealed classes, pattern matching, and text blocks, resulting in cleaner code and future-ready implementations.
- Established secure authentication and authorization workflows using Spring Security, OAuth2, and JWT to protect sensitive data and secure client-server communications.
- Applied design patterns and best coding practices to build high-performance, scalable backend solutions tailored to enterprise-level requirements.
- Integrated Angular-based SPAs with Spring Boot microservices to streamline data flows and enhance operational efficiency.
- Migrated legacy SQL Server databases to PostgreSQL, optimizing query performance, indexing strategies, and enhancing scalability and reliability.
- Monitored AWS cloud resources through CloudWatch and analyzed log data proactively to ensure optimal application performance.
- Developed serverless microservices using Node.js and AWS Lambda, resulting in cost-efficient and highly scalable architectures.
- Integrated AWS API Gateway with Lambda functions to manage frontend-to-backend communications, thereby improving application responsiveness.
- Automated infrastructure provisioning with Terraform, securing consistent deployments and a reproducible, scalable architecture.
- Optimized CI/CD pipelines by integrating Jenkins and Ansible, automating build, test, and deployment processes for faster delivery and reliability.
- Enforced cloud security best practices via SSH key-based authentication and policy-driven access controls, safeguarding backend services.
- Enhanced system observability with Log4j and Splunk by setting up dashboards for real-time monitoring and proactive troubleshooting.
- Managed source code using Bitbucket and employed JIRA for agile sprint management, ensuring effective collaboration and workflow transparency.
- Developed unit tests for both frontend and backend components using JUnit and Mockito to maintain high code quality and test coverage.
- Integrated SonarQube and Dependabot into the development pipeline to perform automated code quality checks and manage dependencies.
- Contributed to technical architecture discussions, design reviews, and code analysis sessions to deliver robust, scalable web solutions.

Liberty Mutual   **Sep 2021 - Dec 2023**
Full Stack Java Developer   *Plano, TX*

- Designed and developed scalable RESTful APIs using Java 8 and Spring Boot with emphasis on API design and performance optimization.
- Built resilient, modular microservices leveraging Spring Cloud components—including API Gateway, Config Server, Circuit Breaker, Load Balancer, and Service Discovery—to support automated scaling and continuous delivery.
- Secured applications by implementing Spring Security, OAuth2, and JWT, ensuring compliance with enterprise-grade security standards and robustness in authentication and authorization.
- Created Spring Batch jobs with custom item readers, processors, and writers to efficiently handle large data volumes and data processing tasks.

- Utilized Hibernate ORM for persistence with optimized HQL queries to streamline entity mappings with the Oracle database, ensuring query efficiency.
- Developed dynamic, responsive UIs using JSP, HTML5, CSS3, and JavaScript frameworks, keeping the focus on backend integration and data consistency.
- Enhanced existing Angular components to improve interface responsiveness while maintaining seamless connectivity with backend services.
- Applied modular design principles by creating reusable Angular components, simplifying maintenance and promoting scalability across projects.
- Leveraged JavaScript and jQuery to implement interactive features that complement backend service integrations.
- Managed containerized deployments using Docker and Kubernetes, ensuring robust orchestration and scalability of microservices in production.
- Engineered CI/CD pipelines with Jenkins to automate builds, Docker image publishing, and Kubernetes deployments, aligning with fast-paced delivery requirements.
- Deployed and scaled full-stack applications on GCP using App Engine and Cloud Run to optimize infrastructure costs and support serverless execution.
- Automated infrastructure provisioning via Terraform, reinforcing Infrastructure-as-Code (IaC) practices for reproducible, consistent environments.
- Designed data pipelines with Hadoop and Spring JDBC, optimizing complex query workflows and data extraction processes.
- Handled dynamic content storage by managing MongoDB and leveraging JSON document structures for flexible schema designs and rapid processing.
- Performed database schema migrations during deployments to ensure data consistency and integrity across varying environments.
- Collaborated with the Kafka Admin team to configure Kafka clusters in QA and production environments to assure reliable messaging and robust integration.
- Monitored and troubleshot Kafka pipelines using Kibana and Elasticsearch, identifying and rectifying message failures to improve overall system reliability.
- Constructed unit tests using JUnit and Mockito, ensuring high test coverage, code stability, and reliable performance across builds.
- Automated code quality checks via SonarQube and managed project dependencies with Dependabot to improve security and maintainability.
- Integrated Firebase and GCP Identity Platform for secure authentication and role-based user management across web applications.
- Implemented robust logging mechanisms with Log4j for enhanced error detection and expedited debugging processes, thereby reducing production downtime.
- Actively engaged in Agile ceremonies, facilitating daily stand-ups, sprint planning, backlog refinement, and retrospectives to ensure timely project delivery.
- Coordinated with cross-functional teams including Product Owners, Scrum Masters, and Business Analysts to gather requirements and align technical priorities.
- Utilized JIRA for streamlined task tracking, defect management, and workflow optimization, ensuring enhanced team communication and project transparency.

Manulife   **Feb 2019 - Aug 2021**
Java Developer   *Boston, MA*
- Collaborated with cross-functional teams to develop and deliver enterprise-level web applications using Core Java, emphasizing robust backend solutions.
- Applied industry-standard best practices and design patterns to build scalable, maintainable solutions that adhere to modern development standards.
- Utilized Java 8 features including Lambda Expressions, Functional Interfaces, and Stream API to optimize code efficiency and readability in backend components.
- Leveraged React Hooks and Context API for state management and component rendering to complement backend API integrations and enhance UI responsiveness.
- Integrated RESTful APIs effectively with frontend interfaces to improve data handling and overall user experience, ensuring smooth system interactions.
- Employed RxJS for asynchronous programming and reactive data flows to optimize user interface performance and responsiveness.
- Assisted in constructing backend microservices using Spring Boot and Spring MVC, incorporating Spring Security for robust authentication and authorization protocols.
- Participated in designing and maintaining both RESTful and SOAP web services to support reliable system integrations.
- Contributed to migrating applications from AWS Elastic Beanstalk to a containerized architecture using Docker and Kubernetes, thereby enhancing scalability and deployment speed.
- Supported AWS infrastructure setup using services like EC2, S3, RDS, and ELB, optimizing deployments and infrastructure performance.
- Assisted in configuring IAM policies and Multi-Factor Authentication to ensure secure access management within backend systems.
- Developed unit and integration tests using JUnit and Mockito to uphold stable application functionality and maintain high code quality standards.

- Participated in setting up CI/CD pipelines using Jenkins, Maven, and GitHub to automate build and deployment workflows, aligning with modern DevOps practices.
- Collaborated on database integration with MySQL and Hibernate, focusing on query optimization and efficient data retrieval for backend processing.
- Assisted in developing data validation packages for processing flat files into MySQL databases, ensuring high data accuracy and integrity.
- Monitored and resolved minor production issues under senior supervision, contributing to reduced downtime and improved system stability.
- Engaged actively in Agile ceremonies such as daily stand-ups, sprint planning, and retrospectives, facilitating effective team communication and project execution.

TECHNICAL SKILLS

- **Programming Languages**: Core Java, Kotlin
- **API & Web Services**: API Design
- **DevOps & Performance**: CI/CD Pipelines, Caching Frameworks, Application Performance Monitoring
- **Domain Expertise**: E-Commerce Experience
- **Front-end Technologies**: JavaScript Frameworks
- **Soft Skills**: High-energy Individual
- **System Administration**: System Administration