

# Saramsh Khadka

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## PROFESSIONAL SUMMARY

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Java Developer with 6+ years of experience in backend development using Java and the Spring ecosystem. Adept at building scalable RESTful APIs and microservices with Spring Boot and Hibernate, integrating CI/CD pipelines and robust database solutions including MySQL, PostgreSQL, and MongoDB. Proven ability to transform business requirements into resilient, high-performance enterprise applications.

## EDUCATION:

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### University of South Dakota

Master, Computer Science

## PROFESSIONAL EXPERIENCE

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### PNC

Full Stack Java Developer

Jan 2024 - Present

Farmers Branch, TX

- Developed RESTful services using Spring Boot, leveraging Spring Actuator and starter dependencies to simplify configuration management, monitor system health, and streamline observability.
- Modernized backend solutions by adopting Java 17 features such as sealed classes, pattern matching, and text blocks, resulting in cleaner code, better readability, and future-ready implementations.
- Designed and deployed scalable, event-driven microservices and integrated them seamlessly with Angular-based SPAs, enabling smooth user experiences and improved system responsiveness.
- Designed and fine-tuned Kafka-driven microservices using the publish-subscribe model to ensure reliable messaging, high throughput, and enhanced system scalability.
- Migrated legacy SQL Server databases to PostgreSQL, optimizing query performance, improving indexing strategies, and enabling better scalability and reliability.
- Streamlined CI/CD pipelines by integrating Jenkins and Ansible, automating the build, testing, and deployment process to achieve faster delivery cycles.
- Established secure authentication and authorization workflows using Spring Security, OAuth2, and JWT, protecting sensitive data and securing communication between client and server layers.
- Applied design patterns and best coding practices to build high-performance, scalable backend solutions tailored to enterprise-grade requirements.
- Monitored AWS cloud resources with CloudWatch and analyzed CloudWatch Logs to proactively track application health and troubleshoot performance issues.
- Built serverless microservices using Node.js and AWS Lambda, creating cost-efficient and highly scalable architectures.
- Integrated AWS API Gateway with Lambda functions to manage frontend-to-backend communications effectively in serverless environments, improving application responsiveness.
- Automated infrastructure provisioning with Terraform, ensuring consistent deployments, scalable architecture, and reproducible environments across all stages.
- Enhanced observability with Log4j and Splunk, setting up dashboards for real-time performance monitoring and proactive issue detection across systems.
- Utilized Bitbucket for effective version control and JIRA for managing sprints, tracking progress, and optimizing team collaboration.
- Developed automated unit tests for both frontend and backend components using JUnit and Mockito, adhering to TDD principles and maintaining 80%+ code coverage.
- Integrated SonarQube and Dependabot into the pipeline to perform automated code quality checks, monitor vulnerabilities, and keep dependencies secure and up to date.
- Actively contributed to architecture discussions, design reviews, and code analysis sessions, ensuring delivery of high-quality, scalable web solutions.

### Liberty Mutual

Full Stack Java Developer

Sep 2021 - Dec 2023

Plano, TX

- Designed and developed scalable RESTful APIs using Java 8 and Spring Boot, focusing on performance, maintainability, and secure service integrations.
- Built resilient, modular microservices leveraging Spring Cloud components like 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 for authentication and authorization, ensuring compliance with enterprise-grade security standards.
- Created Spring Batch jobs with custom item readers, processors, and writers to efficiently process and manage large data volumes.
- Utilized Hibernate ORM for persistence and wrote optimized HQL queries to streamline entity mappings with the Oracle database.
- Designed and implemented CI/CD pipelines with Jenkins to automate builds, Docker image publishing, and Kubernetes deployments.

- Deployed and scaled full-stack applications on GCP using App Engine and Cloud Run, enabling serverless execution and optimizing infrastructure costs.
- Automated infrastructure provisioning via Terraform, applying Infrastructure-as-Code (IaC) to ensure reproducibility and environment consistency.
- Managed MongoDB for dynamic content storage, leveraging JSON documents for flexible schema designs and faster server-side processing.
- Performed database schema migrations during deployments, ensuring data consistency and integrity across environments.
- Partnered with the Kafka Admin team to configure Kafka clusters in both QA and production environments, ensuring reliable messaging.
- Monitored and troubleshooted Kafka pipelines using Kibana and Elasticsearch, identifying message failures and improving system reliability.
- Wrote unit tests using JUnit and Mockito, maintaining high test coverage and ensuring code stability during builds.
- Automated code quality checks via SonarQube and managed dependencies with Dependabot, improving security and maintainability.
- Integrated Firebase and GCP Identity Platform for SSO, secure authentication, and role-based user management across web applications.
- Implemented robust logging with Log4j to streamline error detection and debugging, reducing production downtime.
- Actively participated in Agile ceremonies, including daily stand-ups, sprint planning, backlog refinements, retrospectives, and reviews.
- Collaborated closely with Product Owners, Scrum Masters, and Business Analysts to gather requirements, define priorities, and ensure successful project delivery.
- Worked in cross-functional teams to align frontend, backend, and infrastructure efforts, improving delivery timelines and coordination.
- Used JIRA for task tracking, defect management, and workflow optimization, improving transparency and collaboration across the team.
- Developed dynamic, responsive UIs using JSP, HTML5, CSS3, JavaScript, jQuery, and Angular 10, enhancing usability and user engagement.
- Enhanced existing Angular 9 components, improving interface responsiveness and overall user experience.
- Applied modular design principles by creating reusable Angular components, simplifying maintenance and promoting scalability across projects.
- Leveraged JavaScript and jQuery to add interactive, device-friendly features, ensuring seamless integration with backend services.

## Manulife

**Feb 2019 - Aug 2021**

### *Java Developer*

*Boston, MA*

- Assisted in building microservices using Spring Boot and Spring MVC, incorporating Spring Security for authentication and authorization to secure backend services.
- Integrated RESTful APIs with the frontend to improve data handling and enhance user experience.
- Worked closely with cross-functional teams to assist in developing and delivering enterprise-level web applications.
- Followed industry-standard best practices and applied design patterns to build scalable and maintainable solutions.
- Gained hands-on experience implementing Java 8 features like Lambda Expressions, Functional Interfaces, and Stream API to improve code efficiency and readability.
- Utilized React Hooks and Context API for asynchronous data handling and state management, improving UI responsiveness and ensuring smooth, real-time user interactions.
- Worked on leveraging React Hooks and Context API for state management and efficient component rendering.
- Collaborated on designing and maintaining both RESTful and SOAP web services to support system integrations.
- Helped migrate applications from AWS Elastic Beanstalk to a containerized architecture using Docker and Kubernetes, improving scalability and deployment speed.
- Supported AWS infrastructure setup with services like EC2, S3, RDS, and ELB, while learning to optimize deployments for better performance.
- Assisted in configuring IAM policies and Multi-Factor Authentication for secure access management.
- Contributed to writing unit and integration tests using JUnit and Mockito, helping maintain stable application functionality.
- Participated in setting up CI/CD pipelines using Jenkins, Maven, and GitHub, automating build and deployment workflows.
- Worked on database integration with MySQL and Hibernate, optimizing queries and improving data retrieval efficiency.
- Assisted in developing data validation packages for processing flat files into MySQL databases, ensuring data accuracy.
- Monitored and resolved minor production issues under senior supervision, reducing downtime and improving stability.
- Participated in Agile ceremonies like daily stand-ups, sprint planning, and retrospectives to coordinate effectively with the team.

## TECHNICAL SKILLS

- **Markup Languages:** XML, JSON, HTML5, CSS3, Bootstrap
- **J2EE Technologies:** EJB, Servlets, JSP, JDBC, JNDI
- **Web Technologies:** HTML5, CSS5, XML, Pivotal Cloud Foundry, Containerization, Jenkins Cloud Bees, JQuery, JavaScript, Angular JS, JSF, Node.js, React JS
- **Cloud Platform:** Google Cloud Platform (GCP), Azure, Amazon Web Services(AWS)
- **Frameworks:** Spring Boot, Spring (MVC, Security, Cloud, Boot), Hibernate, Spring Data JPA, Angular (10, 12, 14), AngularJS, Spring Cloud, Spring AI

- **Tools & IDE:** Eclipse IDE, IntelliJ, Visual Studio, Spring Tool Suite (STS)
- **Version Control:** GIT, SVN, Bitbucket
- **Web/Application Servers:** Tomcat, WebSphere, JBoss, Glassfish
- **Databases & Big Data Ecosystem:** Oracle 11g-12c, MySQL, DB2, MongoDB, Firebase, Oracle PL/SQL Apache Cassandra, Hadoop, Postgres
- **J2EE Frameworks:** Spring Boot 1.x, Spring 3.x, Hibernate 3.x, Struts 2
- **Design Patterns:** Inversion Of Control (IOC), Singleton, Prototype, Builder, Adaptor, Factory, Gate Way, Facade, MVP, MVC
- **Testing:** Junit, ALM, ETL, TestNG
- **Build Tool:** Maven, Gradle, ANT
- **Web Services:** Apigee and RESTful Web Services, SOAP Web Services -JAX- WS-API
- **Authentication & Security:** Spring Security, OAuth2, Okta Auth, Google Authenticator, JWT
- **Methodologies:** Agile, Waterfall, Scrum, Lean Six Sigma
- **Tools And Utilities:** Log4J, Ant, Maven, Gradle, Docker, Mockito, Jenkins, Postman, SonarQube, Terraform, Splunk
- **Architecture:** Monolithic, Microservice, Event-Driven Architecture, Server-Client Architecture
- **Key Competencies:** Java, CI/CD Pipelines