

PRAKASH KAFLE

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Professional Summary:

- Having 5+ years of experience in Java, Software Development Life Cycle, Object Oriented programming, developing, and testing of Client/Server, Enterprise, and Web Applications.
- Experience in Front-End UI technologies like HTML5, CSS, jQuery, JSON, AJAX, NodeJS, AngularJS, Angular, ReactJs, Bootstrap, Tag Libraries
- Expertise in UML Diagrams using drawio
- Proficient in web-based enterprise applications using Java, J2EE, EJB, JDBC, Hibernate, Spring IOC, Spring AOP, Spring MVC, Spring Web Flow, Spring Boot, Spring Security, Spring Batch, Spring Integration, Web Services (SOAP and REST) and ORM frameworks like Hibernate.
- Experience in testing and building applications using JUnit, Gradle, and Maven.
- Experience in Producing and consuming Web Services Technologies like RESTful, SOAP, and JAXR (Java API for XML Registries).
- Experience working in Agile Software Development Methodology that includes product backlog refinement, sprint planning, daily scrum meetings, iterative development, product demo, retrospective meetings.
- Hands on experience working with various Application servers like Kubernetes, Docker, WebSphere and Apache Tomcat.
- Expertise in **Microservices** developing **SOA** (Service Oriented Architecture) and **J2EE Web Services** based on **SOAP, RESTful**.
- Experience with extreme programming practices: Agile (XP and Scrum), Test Driven Development, Continuous Integration.
- Expertise in writing **SQL queries, Functions, Triggers**, and good knowledge of **Relational databases** (MySQL, Oracle, PostgreSQL, and DB2) and **NoSQL** (MongoDB).
- Good knowledge and experience in Core and **J2EE design** patterns like Singleton, Abstract Factory, Builder, MVC2, Business Delegate, DAO, AWS (**S3, EC2, ECS, cloud foundation**), UNIX and Shell Scripting.
- Proficiency in utilizing AWS Services, Such as EC2, S3, RDS, Lambda, SQS, SNS, SES, KMS, IAM, CloudWatch, EKS, and Azure services including AKS, Functions, Blob Storage, Managed Identity.
- Knowledge in Using Hibernate as ORM framework with Spring Boot and experience with Quarkus framework.
- Excellent analytical and problem solving using Tableau and SQL debugging skills.
- Involvement in Cloud Environment using Amazon Web Services (AWS) and Microsoft Azure.
- Experience with tools like Maven, Gradle, Jenkins, GIT, Bitbucket, Bamboo, JIRA, Splunk, JFrog, Datadog, Checkmarx, SonarQube, Swagger, Postman, HashiCorp Vault, Liquibase, Talend
- Planned, designed, and deployed Amazon Web Services (AWS) and Microsoft Azure for a substantial number of applications using cloud-native architectures.
- Well-versed in J2EE patterns and agile/Scrum methodologies.

Technical Skills:

Programming Languages	Java, Python, TypeScript, JavaScript and PL/SQL
Frameworks	Spring Boot, Apache, Spring Core, Angular, Django, Quarkus, React
Web Services	Soap, Jax-WS, Jax-RS, Restful, Microservices, AWS, Azure
ORM Framework	Hibernate, JPA, Spring Data
Application/Web Server's	JBoss, Apache Tomcat.
Databases	MySQL, Oracle SQL, PostgreSQL, Microsoft SQL Server

Development Tools	Eclipse, IntelliJ, Oracle SQL Developer, Postman, DBeaver, Vs Code
Operating Systems	Windows, UNIX, Linux, macOS
Version Controls	Git, Bitbucket
Software Methodologies	Scrum, Agile, and Waterfall.

Professional Experience:

Elevance Health - Indianapolis, IN

April 2023 - Present

Role: Senior Java Developer

Responsibilities:

- Involved in all phases of Software Development life Cycle (SDLC) including requirement gathering, design, analysis, and code development.
- Leading full-stack development initiatives using Java 11 and Java 17, implementing modern enterprise applications with Spring Boot framework and RESTful APIs.
- Developing and maintaining microservices architecture using both Spring Boot and Quarkus frameworks, ensuring high performance and scalability for healthcare applications.
- Designing and implementing front-end applications using Angular 11 and Angular 18, creating responsive and user-friendly interfaces for healthcare management systems.
- Utilizing IntelliJ IDEA as primary development environment and implementing comprehensive API documentation using Swagger for all REST endpoints.
- Managing application lifecycle using Maven for build automation and dependency management, ensuring consistent and reliable deployment processes.
- Implementing containerized applications using Docker and orchestrating them with Kubernetes CLI for scalable cloud-native deployments.
- Working extensively with AWS cloud services including EC2 for compute resources, S3 and S3 Glacier for storage solutions, RDS for managed databases, Lambda for serverless computing, and messaging services like SQS and SNS.
- Configuring and managing AWS security services including KMS for encryption, IAM for access management, and CloudWatch for monitoring and logging.
- Implementing Azure cloud solutions using AKS (Azure Kubernetes Service) for container orchestration, Azure Functions for serverless computing, and Blob Storage for data persistence.
- Managing secrets and configuration using HashiCorp Vault, integrating secure credential management into deployment pipelines.
- Implementing database version control and migration strategies using Liquibase, ensuring consistent database deployments across environments.
- Utilizing Talend for ETL processes and data integration, enabling seamless data flow between healthcare systems.
- Conducting code quality analysis using SonarQube and security scanning with Checkmarx to maintain high code standards and security compliance.
- Monitoring application performance and troubleshooting issues using Datadog for application performance monitoring and Splunk for log analysis.
- Managing CI/CD pipelines using Bamboo for automated builds and deployments, with source code management through Bitbucket.
- Collaborating with cross-functional teams using JIRA for project management and tracking development progress in Agile/Scrum environment.
- Implementing comprehensive testing strategies using JUnit and Postman for API testing, ensuring robust and reliable application functionality.
- Developing healthcare-specific features ensuring HIPAA compliance and maintaining high security standards for sensitive medical data.

- Participating in architecture reviews and providing technical guidance for microservices design patterns and cloud-native application development.

Environment: Java 11/17, Spring Boot, Quarkus, Angular 11/18, IntelliJ IDEA, Maven, Docker, Kubernetes, AWS (EC2, S3, RDS, Lambda, SQS, SNS, KMS, IAM, CloudWatch, EKS), Azure (AKS, Functions, Blob, Managed Identity), HashiCorp Vault, Liquibase, Talend, SonarQube, Checkmarx, Datadog, Splunk, JFrog, Bamboo, Bitbucket, JIRA, Swagger, Postman, RESTful Web Services, Microservices.

Technical Projects:

Enterprise PDF Data Extraction and JSON Conversion System

Technologies: Spring Boot, Java 17, Maven, RESTful APIs, Apache PDFBox, Jackson, JUnit, Swagger

Description:

- Developed a comprehensive document processing microservice using Spring Boot for extracting structured data from PDF documents and converting them to JSON format with byte array manipulation capabilities.
- Implemented RESTful APIs for uploading PDF files, extracting text and metadata, and converting the extracted data into JSON objects with proper byte array handling for binary content.
- Utilized Apache PDFBox library for PDF parsing and text extraction, implementing custom algorithms to identify and extract structured data from various PDF formats including forms, tables, and formatted documents.
- Created robust error handling mechanisms for corrupted PDFs, unsupported formats, and memory optimization for large file processing.
- Implemented comprehensive unit testing using JUnit and integration testing for various PDF formats and edge cases.
- Designed the system to handle concurrent requests with thread-safe operations and implemented caching mechanisms for frequently processed document types.

Real-Time Chat Application with Microservices Architecture

Technologies: Spring Boot, Apache Kafka, Angular 18, WebSocket, MySQL, Docker, Kubernetes, Maven, Spring Security, JUnit

Description:

- Architected and developed a scalable real-time chat application using microservices architecture with Spring Boot backend and Angular frontend.
- Implemented real-time messaging using WebSocket connections for instant communication and Apache Kafka for message queuing and distributed messaging between microservices.
- Designed and developed Angular 18 frontend with responsive UI components, real-time message display, user authentication, and chat room management features.
- Created MySQL database schema for user management, chat rooms, message history, and implemented Spring Data JPA for data persistence with optimized queries.
- Containerized the entire application using Docker with multi-stage builds and deployed on local Kubernetes cluster with service discovery, load balancing, and auto-scaling capabilities.
- Implemented Spring Security for JWT-based authentication and authorization, ensuring secure communication between services and protecting WebSocket connections.
- Developed message broadcasting, private messaging, group chats, and file sharing capabilities with proper error handling and connection management.

Full-Stack Blog Management Platform

Technologies: Angular 18, Spring Boot, Spring Data JPA, MySQL, RESTful APIs, Spring Security, Bootstrap, Maven, Junit

Description:

- Built a comprehensive blog management platform with Angular frontend and Spring Boot backend, featuring complete CRUD operations for blog posts, comments, and user management.
- Developed RESTful APIs using Spring Boot with proper HTTP status codes, exception handling, and comprehensive API documentation using Swagger.
- Implemented Angular 18 frontend with lazy loading, routing, reactive forms, and responsive design using Bootstrap for cross-platform compatibility.
- Created MySQL database design with normalized tables for users, posts, comments, categories, and tags with proper foreign key relationships.
- Implemented Spring Security with JWT authentication, role-based access control (RBAC), and password encryption for secure user management.
- Developed advanced features including rich text editor, image upload, search functionality, pagination, commenting system, and social media integration.
- Added comprehensive testing suite with unit tests using JUnit for backend services and Jasmine/Karma for Angular components.

E-Commerce Platform with Advanced Features

Technologies: Spring Boot, Spring Data JPA, Angular 18, MySQL, Spring Security, PayPal Integration, Maven, Docker, JUnit

Description:

- Developed a full-featured e-commerce platform with product catalog, shopping cart, order management, and payment processing capabilities.
- Implemented microservices architecture using Spring Boot with separate services for user management, product catalog, inventory, order processing, and payment handling.
- Created Angular 18 frontend with advanced features including product search and filtering, shopping cart management, checkout process, order tracking, and user dashboard.
- Designed comprehensive MySQL database schema with tables for products, categories, users, orders, payments, and inventory management with proper indexing for performance.
- Integrated PayPal payment gateway for secure transaction processing and implemented order status tracking with email notifications.
- Developed admin panel for product management, order processing, inventory tracking, and sales analytics with role-based access control.
- Implemented advanced features like wishlist, product reviews and ratings, discount coupons, and recommendation system based on user behavior.

Custom Container Orchestration Project

Technologies: Docker, Docker Compose, Kubernetes, Linux, Shell Scripting, YAML, Container Registry

Description:

- Designed and implemented custom Docker containers from scratch, creating optimized Dockerfiles with multi-stage builds for various application types.
- Built container images for different technology stacks including Java applications, Node.js services, and database containers with proper security configurations and minimal attack surface.
- Implemented Docker networking, volume management, and container linking for complex multi-container applications using Docker Compose.
- Created custom Kubernetes deployment configurations, services, ingress controllers, and persistent volume claims for production-ready container orchestration.
- Developed automated CI/CD pipeline for building, testing, and deploying custom containers to container registries with proper versioning and rollback strategies.
- Implemented container monitoring, logging, and health checks with proper resource allocation and scaling policies.

Django Pet Health Management System

Technologies: Django 4, Python, SQLite, Django REST Framework, HTML5, CSS3, Bootstrap, pytest

Description:

- Developed a comprehensive pet management system using Django framework for tracking pet health records and vaccination schedules.
- Created Django models for pets, owners, veterinarians, vaccinations, and medical records with proper relationships and data validation.
- Implemented Django admin interface for easy data management and created custom forms for pet registration and vaccination tracking.
- Developed features for vaccination reminder system, medical history tracking, appointment scheduling, and health report generation.
- Created RESTful APIs using Django REST Framework for mobile app integration and third-party service connectivity.
- Implemented user authentication, role-based permissions, and data security measures for protecting sensitive pet health information.

Education:

August 2016 – December 2016: East Central University, Ada, Oklahoma

January 2017 – December 2018: Associate Degree in Computer Science, North Lake College, Irving, TX

January 2020 – August 2022: Bachelor's in computer science, University of Texas at Arlington, Arlington, TX