 **Dinesh Yadav**

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**SUMMARY**

Experienced **Full Stack Java Developer** with **3 years** of expertise in designing and optimizing web applications. Specializes in **Java**/**J2EE** and adept with over **10 open-source technologies**. Demonstrated achievements include enhancing database performance by 40% and scalability by 30% across **MySQL**, **Oracle**, and **MongoDB** platforms. Proficient in front-end technologies such as **HTML**, **CSS**, and **JavaScript**, leveraging to develop robust single-page applications. Experienced in **Java Server Pages (JSP),** **Servlets**, and enterprise-level development with spring and **Spring** **Boot**. Skilled in **Agile** and **Waterfall** methodologies for effective project management.

**PROFESSIONAL EXPERIENCE**

**Vizva Consultancy** 09/2023 – Present

**Application Developer**

* **Database Performance Optimization (SQL & MongoDB):** Engineered comprehensive SQL and MongoDB solutions, defining 25+ indexes and 15+ entity relationships in SQL to enhance database efficiency, achieving a 35% reduction in report generation time. Optimized MongoDB performance through effective indexing, schema design, and query tuning, ensuring scalability and low-latency performance for NoSQL-driven applications.
* **Java Performance Optimization (Hibernate & JRA):** Optimized Hibernate settings and batch processing to enhance performance and reduce database round trips. Integrated Java Remote Access (JRA) for efficient communication. Utilized Java Persistence API (JPA) for streamlined database access and management.
* **API Development :** Engineered robust APIs using Node.js, optimizing for high traffic loads and reducing downtime by 40%, thereby strengthening performance metrics and enhancing user experience by 60%.
* **SPA Development:** Built and iteratively improved complex Single Page Applications (SPAs) using Angular 8+ and React.js, integrating RESTful APIs with back-end services. Designed and implemented interactive UIs using HTML5, CSS3, and JavaScript, leading to a 35% increase in user satisfaction, a 15% rise in daily active users, a 25% increase in average session duration, and a 20% reduction in page load times.
* **Scalable Microservices** : Designed and deployed a scalable Micro services using Spring Boot, RESTful APIs, and AWS (ECS, Lambda, API Gateway), ensuring modularity, fault tolerance, and efficient distributed processing.
* **CI/CD and Containerization:** Streamlined deployment with Docker and automated CI/CD pipelines using Jenkins and GitLab CI, accelerating continuous integration, delivery, and deployment processes.
* **Client-Side Validation and Form Handling:** Executed robust client-side validation and form handling with JavaScript, ensuring data integrity and reducing form submission errors by 40%, increasing user satisfaction by 25%.
* **AWS Infrastructure Deployment & Optimization:** Deployed and optimized application infrastructure on AWS, leveraging services like EC2, S3, and Cloud Front. Configured virtual servers, storage, and content delivery networks to support scalable and highly available architectures, optimizing both performance and cost efficiency.
* **UNIX Server Management & Automation:** Configured and maintained UNIX servers for optimal Java application performance and availability. Developed shell scripts to automate deployment, system monitoring, and maintenance tasks, enhancing operational efficiency and consistency.

**Essence web Technology** 10/2022 – 08/2023

**Java Developer**

* **Web Application Development :** Developed responsive front-end web applications using HTML5, CSS3, and Bootstrap, alongside large-scale Angular applications and interactive user interfaces with React.js. Utilized advanced features like lazy loading, component creation, and optimized performance, resulting in a 30% increase in user engagement and a 20% boost in frontend performance.
* **Web Performance Optimization:** Accelerated web page performance by optimizing images, compressing CSS and JavaScript, and leveraging browser caching, leading to a 35% increase in load speed.
* **RESTful Web Services Development:** Established RESTful web services and APIs in Java, facilitating seamless communication and improving system integration by 40%.
* **Database Performance Optimization:** Enhanced database performance through analyzing query plans, optimizing indexing strategies, and configurations, increasing efficiency by 35%.
* **Service Discovery and Messaging:** Managed **microservices** communication using Spring Cloud Config, Eureka for service discovery, and message brokers like Kafka and RabbitMQ, optimizing inter-service communication and asynchronous messaging.
* **MySQL Server Optimization:** Streamlined MySQL server operations through query optimization and performance audits, ensuring 99.9% server availability, accelerating response times by 30%, and minimizing downtime by 25%.
* **Apache Tomcat Server Management:** Revamped Apache Tomcat server settings to maintain 99.9% uptime and decrease response times by 25%, enhancing user satisfaction and system robustness.
* **Maven Configuration:** Configured Maven plugins to automate tasks such as compiling source code, packaging artifacts, and running tests, thereby improving the development workflow for Java applications.

**Ocrolus** 02/2220 – 07/2020

**Intern**

* **Java Application Development:** Developed robust Java applications and scripts for web applications, streamlining data processing operations, boosting efficiency by 40%, and reducing manual errors by 15%.
* **Servlet-Based Programming:** Engineered server-side programs using Servlets to efficiently handle requests, increasing server response efficiency by 25%.
* **API Development and Management:** Configured and managed API Gateway Proxy (APG) for safe and scalable API management, for seamless integration, traffic monitoring, efficient request routing, enhancing system reliability by 35%.
* **RESTful API Integration:** Connected frontend components to backend services via RESTful APIs, facilitating seamless data exchange and updates, and reducing data synchronization issues by 30%.
* **Asynchronous Data Retrieval:** Implemented AJAX for asynchronous data retrieval, enhancing user experience by enabling real-time content updates and reducing page rendering speeds by 20%.
* **Front-End Interface Development:** Translated design concepts into functional web interfaces using HTML5, CSS3, and JavaScript, resulting in a 30% improvement in design consistency and user satisfaction.
* **XML Data Integration:** Leveraged Java API for XML Processing (JAXP) to integrate XML data seamlessly and managed resources using Java Management Extensions (JMX), improving data handling efficiency by 30%.
* **Third-Party API Integration:** Connected third-party APIs with JavaScript, extending features and enhancing functionality by 20%.
* **Monitoring and Security:** Enhanced system performance monitoring and security by implementing API Gateways (Kong, Zuul) and integrating tools like Prometheus, Grafana, and the ELK Stack for real-time tracking, alerting, and troubleshooting.

**SKILLS**

* **Programming Languages:** Java
* **Web Technologies:** HTML, CSS, JavaScript
* **Frameworks:** Spring, Spring Boot, Hibernate, Spring MVC
* **Database Technologies:** MySQL, Mongo DB, RDBMs , Amazon Aurora,
* **IDEs:** Eclipse, Vs Code, Spring Tool Suite, IntelliJ IDEA
* **J2EE Technologies:** JDBC, JSP, Servlets, JavaBeans, JRA, JPA, JTA, Java Mail,
* **Methodologies:** SDLC, Agile, Waterfall
* **Version Control:** Git, GitLab Bucket
* **Testing Tools:** Postman, Junit,
* **Cloud Services:** AWS S3, EC2, Lambda, RDS
* **Building Tools:** Jenkins, Maven, API Gateway Proxy (APG), Terraform
* **Operating Systems:** Linux, windows, iOS
* **Messaging Systems:** Kafka

**EDUCATION**

* **Master’s Degree** | **Computer Science** | **AKTU University** | GPA – **8.1/10** | 08/2020 – 12/2022
* **Bachelor’s Degree** | **Computer Science** | **MGKVP University** | GPA – 7.1/10 | 08/2016 – 05/2019

**PROJECTS**

**Blog Application**

* Developed a Spring Boot Blog App with RESTful APIs, integrating Spring Security for authentication and role-based access control to enhance system security and user efficiency.
* Implemented CRUD operations, one-to-many relationships, pagination, sorting, and search functionalities using Spring Data JPA, improving data management and retrieval times.
* Containerized the application using Docker and deployed it on AWS, achieving 99.9% uptime and enhanced scalability.

**Photo Sharing Web App**

* Developed a Ruby on Rails-based social media photo-sharing web application.
* Adhered to MVC architecture, crafted user stories, and employed agile methodologies.