**Raj Kumar M**

**Full Stack Java Developer**

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**PROFESSIONAL SUMMARY**

* Around **7+ years** of IT experience in the design, development, implementation and testing of client-server, web applications using **Java/J2EE** Technologies.
* Experience in **Core Java**, **J2EE**, **Spring**, **Hibernate**, **JSP**, **Oracle**, **MySQL**, **REST** **webservices**, **JUnit**, **TestNG**, **JavaScript**, **Angular**, **jQuery**, **Jasmine**, and **Bootstrap.**
* Hands-on experience across all stages of the **Software Development Life Cycle (SDLC),** commencing from project initiation, requirement gathering, requirement analysis, functional design, detail design, development, and implementation of multi - tier enterprise, web based and distributed applications.
* Dynamic Java Full Stack developer with a solid foundation in **Java 11**, utilized its advanced features to create seamless end-to-end applications.
* Good knowledge of **Java 8** functional programming concepts like **lambda expressions, functional interfaces, and Streams.**
* Proficient in **Angular 10** component-driven architecture, state management, & asynchronous programming, well-equipped to develop dynamic and responsive web applications.
* Experience with various **MVC** Java frameworks like **Angular.JS, Bootstrap** etc.
* Extensive knowledge of cutting-edge web technologies, including **ReactJS, JavaScript, HTML5, CSS3, XML, JSON, jQuery, DOM, AngularJS, Angular, Node.js, and Backbone.js** for creating highly interactive and visually appealing user interfaces.
* Expertise in creating dynamic and engaging **user interfaces** through the utilization of contemporary front-end frameworks like **React** and **Angular**.
* Designed modular and easily maintainable components, leading to enhancements in **user** **experience** and **application responsiveness**.
* Good knowledge of servers such as **Tomcat**, **JBoss** and IDE tools like **Eclipse** and **VS Code**.
* Strong experience in development and deployment of multi-tiered web-based enterprise applications using **J2EE** technologies like **Servlets**, **JSP**, **Hibernate**, **Spring**, **JDBC** and **Web services (SOAP and REST).**
* Hands-on experience in different kinds of databases **Oracle**, **SQL Server, MySQL, PostgreSQL, MongoDB, and Cassandra** ensuring seamless data management and retrieval.
* Excellent knowledge in configuring multiple WebLogic domains including machines, managing servers, node managers, and cluster environments.
* Demonstrated skill in collaborating with cloud platforms such as **AWS, Azure,** and **GCP** facilitating effective deployment and administration of applications within cloud environment.
* Proficiency in writing complex **SQL**, **PL/SQL-developed** Procedures, Functions and Packages.
* Experience in **Soap UI** for integration testing and regression testing web services.
* Proficient in developing applications using **Java Design Patterns** like creational, structural, and behavioral design patterns.
* Hands on experience with **scripting** languages like **Unix** and **Linux**.
* Experience in production support activities for deployment, bug fixing and **troubleshooting for highly critical web applications.**
* Proficient in working with build and deployment tools like **Maven, Git, Jenkins, Docker, and Kubernetes, Terraform** enhancing productivity and code quality.
* Extensive proficiency in testing tools like **JUnit, Jasmine, Karma, Citrus, Cucumber, and Selenium** guaranteeing thorough testing and quality validation.
* Evaluate the technologies and appropriate products to meet the business goals and future needs.
* Excellent written and oral communication skills, team playing spirit and strong analytical & problem-solving abilities.

**TECHNICAL SKILLS**

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| **Prog ramming Languages** |  Java-11/8, Core Java, J2EE |
| **Web Technologies** | HTML, CSS, JavaScript, Angular, jQuery |
| **Front-end Technologies** | HTML5, XHTML, XML, JSON, JavaScript, jQuery, ReactJS, AngularJS, Node.js, Backbone.js, Express.js |
| **Cloud Platforms** | AWS, Azure, GCP |
| **Web Application Server** | Apache Tomcat, WebLogic, JBoss |
| **Database** | Oracle, SQL Server, MySQL, PostgreSQL, MongoDB, DynamoDB, Cassandra, NoSQL |
| **IDEs and Editors** | Eclipse, Sublime Text, VS Code, IntelliJ |
| **Build Tools** | Maven, ANT |
| **Deployment Tools** | Jenkins, Docker, Kubernetes, Terraform |
| **Frameworks/Libraries** | Spring, Spring Boot, Hibernate, Kubernetes, Servlets, MuleSoft, JAX-RS |
| **Testing Frameworks** | JUnit, Jasmine, Karma, Citrus, Cucumber, Selenium |
| **Operating Systems** | Windows 10, Unix, Linux, MacOS |
| **Source Control** | Git, GitHub, Gitlab, Bitbucket |

**WORK EXPERIENCE**

**Client: Northwestern Mutual, Wisconsin May 2022 - Till Date**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Led the successful adoption of **Agile** practices, orchestrating sprint planning, stand-ups, reviews, and retrospectives. Empowered cross-functional teams to collaborate effectively, ensuring timely delivery of high-quality software increments.
* Utilized **Java 11** enhanced performance and stability to develop robust backend solutions, ensuring efficient data processing and seamless integration within the full-stack application.
* Successfully migrated legacy Java applications to **Java 11**, ensuring seamless compatibility and adherence to the latest language standards.
* Leveraged **core Java** features such as classes, objects, inheritance, and polymorphism to create modular and maintainable code.
* Proficiently utilized **HTML5, CSS3, and XHTML** to develop visually engaging and responsive user interfaces, ensuring a seamless and interactive user experience across various devices.
* Proficiently developed robust web applications using **Angular 10**, leveraging its comprehensive ecosystem of components, services, and dependency injection for building scalable and maintainable code.
* Initiated the development of dynamic and responsive user interfaces using **Angular 10,** translating design mockups into interactive web applications that deliver an exceptional user experience.
* **Migrated** data models and **API integrations** from **React to Angular**, ensuring a seamless transition of data flow and communication.
* Designed and developed application components using the **Spring Framework** to ensure modularity and maintainability.
* Leveraged **Spring Boot** to expedite project setup by providing default configurations and embedded web servers.
* Developed web applications using **Spring MVC** architecture to ensure separation of concerns and code modularity.
* Designed and implemented **microservices** architecture, breaking down monolithic applications into modular, independently deployable services that improved scalability, maintainability, and fault isolation.
* Designed, developed, and documented **RESTful APIs** using Java frameworks like **Spring** or **JAX-RS**.
* Developed dynamic and scalable web applications using **Node.js,** harnessing its event-driven architecture and non-blocking I/O to build high-performance applications.
* Utilized **Express.js** to create robust and efficient APIs, effectively managing routing, middleware, and request handling for seamless interaction between clients and servers.
* Orchestrated the design and deployment of cloud infrastructure on **AWS**, utilizing services like **EC2, S3, and RDS** to ensure the availability, scalability, and security of applications.
* Leveraged **AWS** Lambda and API Gateway to architect and develop serverless applications, optimizing resource usage and reducing operational complexities.
* Successfully integrated **Azure** **services** like Azure Virtual Machines and Azure App Services into application architecture, ensuring reliable and efficient hosting.
* Implemented hybrid cloud solutions using **Azure Arc**, seamlessly extending on-premises infrastructure to Azure for streamlined management and enhanced scalability.
* Designed and implemented **NoSQL** data models in **MongoDB** to accommodate flexible and dynamic data structures.
* Managed and optimized **Oracle Database** schemas, leveraging partitioning and indexing strategies to enhance data organization and query performance within the full stack application's backend.
* Integrated messaging services like **Apache Kafka** into the application architecture to enable asynchronous communication between components.
* Proficiently employed **Docker** to containerize applications, encapsulating code, dependencies, and configurations for consistent and portable deployment across various environments.
* Utilized **Kubernetes** to orchestrate and manage containerized microservices, ensuring seamless scaling, load balancing, and fault tolerance to maintain high application availability.
* Created comprehensive test cases and scenarios using tools such as **JUnit** and **Cucumber**, covering a wide range of functional and non-functional requirements.
* Managed project tasks, user stories, and sprint planning in **Jira**, ensuring efficient task allocation and progress tracking.
* Conducted thorough code reviews and collaborated with peers through **Git** pull requests, enhancing code quality and knowledge sharing.

**Environment**: Core Java, Java 11, HTML5, CSS3, XHTML, Angular, RESTful APIs, JAX-RS, Spring framework, Spring boot, Spring MVC, NoSQL, MongoDB, Apache Kafka, microservices, Oracle database, Docker, Node.js, Express.js, AWS, Azure, Kubernetes, Junit, Cucumber, Jira, Git.

**Client: Cisco India Nov 2019 - Aug 2021**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Orchestrated the entire **Software Development Life Cycle (SDLC),** from initial requirement gathering and analysis to design, development, testing, deployment, and post-implementation support. Ensured adherence to established processes, resulting in the successful delivery of fully functional software solutions.
* Implemented modern, concise, and maintainable codebase using **Java 11** features, such as local variable type inference and improved lambda expressions, enhancing the readability and extensibility of the full stack application.
* Leveraged **Java 11** standardized HTTP Client API to optimize communication between frontend and backend, resulting in reduced latency and improved overall responsiveness of the full stack application.
* Employed semantic **HTML** and **XHTML** to enhance content structure and accessibility, ensuring compliance with web standards and optimizing search engine visibility.
* Led the development of dynamic and interactive user interfaces using **React**, transforming design concepts into responsive web applications that offer an engaging user experience.
* Leveraged **React** component-based architecture to create modular and reusable UI components, streamlining development and promoting consistency across the application.
* Employed **React** Hooks to streamline component logic and lifecycle management, resulting in more concise and readable code.
* Effectively employed Java Standard Library classes and methods for data manipulation, collection handling, and other common programming tasks.
* Using **Core Java** Implemented exception handling mechanisms to ensure graceful error management and enhance application stability.
* Developed robust and well-documented **RESTful APIs**, leveraging industry best practices to ensure clear communication between microservices and enabling seamless integration with external systems.
* Ensured high availability and data integrity by implementing **Oracle** backup and recovery mechanisms, safeguarding critical application data from potential failures and ensuring minimal downtime.
* Successfully integrated both **SQL** and **NoSQL** databases into applications, leveraging **MongoDB** for flexible document-based storage and SQL databases for structured data storage and retrieval.
* Designed, implemented, and managed **MongoDB** databases, ensuring efficient document storage, retrieval, and indexing for data-driven applications.
* Designed and implemented scalable solutions on **GCP**, utilizing services such as **Google Compute Engine** and Kubernetes Engine to build resilient and high-performance applications.
* Utilized **GCP** services like **Big Query** and **Data Studio** to analyze and visualize large datasets, enabling data-driven decision-making and insights.
* Set up and managed **Kubernetes** clusters to automate application deployment, scaling, and operations, optimizing resource utilization and streamlining DevOps processes.
* Implemented real-time data streaming using **Apache Kafka** to establish efficient communication between **microservices**, ensuring seamless data synchronization and enhancing overall application responsiveness.
* Designed and configured **message queues** and topics to facilitate efficient data flow and communication among microservices.
* Utilized popular test automation frameworks like **JUnit**, **TestNG**, and **Selenium** to create automated test suites, enhancing efficiency, accuracy, and regression testing capabilities.
* Actively contributed to process improvements, adapting **Jira** practices to optimize team efficiency and project outcomes.
* Implemented and upheld coding guidelines and industry best practices among the team, ensuring the consistent delivery of code that is both high in quality and easy to maintain.
* Effectively using **Git** to manage source code, putting in place solid branching and merging techniques, enabling a seamless collaborative development process, and keeping a clean codebase.

**Environment:** Core Java, J2EE, HTML, XHTML, React, RESTful API, SQL, NoSQL, MongoDB, GCP, Big Query, Data Studio, Oracle Database, Apache Kafka, Kubernetes, Junit, TestNG, Selenium, Jira, Git.

**Client: Qualcomm India. Mar 2018 - Oct 2019**

**Role: Mid-Full Stack Java Developer**

**Responsibilities:**

* Managed **Agile development cycles,** breaking down user stories into actionable tasks, and coordinating efforts across teams. Delivered regular updates to stakeholders, leveraging iterative development to accommodate evolving project needs.
* Demonstrated proficiency in creating multithreaded applications, optimizing resource utilization and improving application responsiveness.
* Implemented data processing tasks using **Java 8** streams, improving the efficiency of data manipulation and enabling real-time updates for front-end interactions.
* Designed and implemented **RESTful** APIs using **Java 8** and **Spring MVC**, enabling seamless communication between frontend and backend components while adhering to best practices for scalability and security.
* Leveraged **CSS** to design and customize user interfaces, implementing consistent branding, and intuitive layouts that enhanced the aesthetic appeal and usability of web applications.
* Implemented reactive forms and data binding in **Angular 8** to manage complex data interactions.
* Proficiently utilized **Angular 8** to develop responsive and dynamic user interfaces, creating seamless user experiences through components, services, and data binding.
* Successfully set up and configured **API** gateways to manage and route requests among **microservices**, enhancing security, load balancing, and API versioning for improved performance.
* Deployed Java Full Stack applications on **AWS**, utilizing services like **Amazon EC2** for scalable resources and **Amazon RDS** for managed database instances. Managed application lifecycle, monitoring, and scaling for optimal performance.
* Implemented **PL/SQL** procedures to encapsulate business logic within the **Oracle Database**, promoting code reusability and maintaining a clear separation between application layers.
* Designed and maintained efficient **PostgreSQL** database schemas, optimizing data storage and retrieval operations for seamless integration with the Java-based backend services of the full stack application.
* Executed complex **SQL** queries for data manipulation, retrieval, and optimization, leveraging relational databases to ensure data integrity and consistency.
* Proficiently designed data models and schemas for **MongoDB** collections and **SQL** tables, optimizing data storage and retrieval efficiency based on application requirements.
* Designed and developed **Kafka** consumers and producers to enable reliable message processing and event-driven architecture, resulting in improved data flow and timely updates across the full stack application.
* Leveraged tools like **Helm** and **Kubernetes** manifest to define infrastructure as code, enabling consistent and repeatable deployment of applications and services.
* Integrated testing into continuous integration pipelines using tools like **Jenkins** and **GitLab** **CI/CD**, ensuring the automatic execution of tests with each code change.
* Customized **Jira** workflows to match the development process, streamlining task statuses, transitions, and notifications.

**Environment:** Java, SQL, RESTful API, Spring MVC, Angular 8, AWS, EC2, RDS, PL/SQL, Oracle Database, PostgreSQL, MongoDB, Helm, Kubernetes, microservices, Kafka, Jenkins, GitLab, CI/CD, Jira.

**Client: HP, India. June 2016 – Feb 2018**

**Role: Java Developer**

**Responsibilities:**

* Collaborated closely with stakeholders to understand business requirements and translate them into comprehensive software specifications. Ensured that the development process remained aligned with strategic goals and user needs throughout the entire **SDLC**.
* Implemented generics to enhance type safety, code reusability, and maintainability, ensuring efficient data handling.
* Developed and maintained robust and scalable backend solutions using **Java 8,** ensuring optimal performance and adherence to industry best practices. Leveraged Java's functional programming features to enhance code quality and maintainability, resulting in more efficient development cycles and **reduced bug occurrences**.
* Utilized **Java 8** lambda expressions for functional programming, resulting in concise and expressive code structures.
* Collaborated closely with design and development teams to transform wireframes and mockups into interactive, user-centric interfaces, effectively bridging the gap between design and implementation.
* Developed reusable **React** components and libraries, fostering code reusability and consistency across the application. Leveraged props, hooks, and higher-order components to create modular and maintainable UI elements, accelerating development cycles and minimizing redundancy.
* Utilized **React** state management and props system to manage and share data between components.
* Orchestrated **microservices** interactions using service choreography or orchestration patterns, ensuring effective communication, synchronization, and data consistency across the application.
* Developed and fine-tuned **SQL** queries using **Oracle Database** advanced features, such as window functions and analytics, to provide efficient data manipulation and insightful reporting capabilities.
* Utilized Microsoft **Azure** cloud services to deploy, monitor, and scale Java full stack applications, leveraging **Azure** robust infrastructure to ensure high availability, seamless integration, and optimal performance across the entire software stack.
* Developed and deployed serverless functions using **Azure Functions**, allowing for event-driven and scalable backend operations. Implemented Java-based **Azure** Functions to handle data processing, trigger notifications, and automate workflows, effectively reducing operational overhead.
* Implemented effective error handling mechanisms and conducted thorough debugging using tools like **Node.js's** built-in debugging and third-party tools, ensuring stable and reliable applications.
* Developed complex **SQL** queries and views in **PostgreSQL** to generate insightful reports and analytics, empowering informed decision-making by extracting valuable insights from the application's data.
* Utilized **caching mechanisms**, indexing, and other optimization techniques to enhance application performance, ensuring smooth execution of operations and efficient use of resources.
* Integrated **Docker** and **Kubernetes** into **CI/CD pipelines**, automating the deployment and scaling of applications, reducing deployment times and ensuring consistency.
* Utilized **Apache Camel** integration patterns to seamlessly connect disparate systems and applications, enhancing data exchange between backend services and **external API** while maintaining code simplicity and modularity.
* Utilized **messaging services** to enable real-time notifications to users, keeping them informed about important events and updates within the application.
* Performed Unit testing for modules using **JUnit** and prepared code documentation for future reference and upgrades.
* Integrated **Jira with Git repositories**, connecting code changes to corresponding tasks and issues for enhanced traceability.

**Environment:** Java 8, React, SQL, Node.js, Kubernetes, Docker, CI/CD, Azure, Oracle Database, SQL, PostgreSQL, Apache Camel, Microservices, Junit, Jira, Git.

**Client: Trigent Software Pvt Ltd, India. Sep 2015 – May 2016**

**Role: Java Developer**

**Responsibilities:**

* Practiced **Agile methodologies** such as **Scrum**, participating in sprint planning, daily stand-ups, and retrospective meetings to ensure efficient project management and timely delivery.
* Designed and implemented data structures and algorithms in **Core Java** to optimize application performance and data manipulation. Utilized collections frameworks and custom data structures to efficiently manage and process large datasets, resulting in improved application speed and resource utilization.
* Designed and built Single Page Applications **(SPAs)** using **Angular 4,** ensuring smooth navigation and enhanced user experiences. Implemented routing and lazy loading to optimize application loading times and user interactions.
* Integrated Java applications with external **APIs** and third-party services, facilitating seamless data exchange and enhancing application functionalities.
* Designed, developed, and maintained database structures using **SQL** and **Java Database** Connectivity **(JDBC).** Created queries, stored procedures, and triggers for efficient data retrieval and storage.
* Utilized **Oracle** Materialized Views and Query Rewrite features to optimize query performance, enhancing the overall speed and efficiency of data retrieval for the full stack application.
* Implemented data integrity constraints and transaction management in **PostgreSQL**, ensuring accurate and consistent data handling across various components of the full stack solution.
* Diagnosed and resolved complex issues within Java applications using **debugging** tools and methodologies. Collaborated with cross-functional teams to identify root causes and implement effective solutions.
* Utilized Amazon Web Services **(AWS)** to deploy Java applications, leveraging services such as **Amazon EC2** and **AWS Elastic Beanstalk**. Configured and launched instances to host applications, ensuring high availability and scalability.
* Designed and implemented complex **ETL** processes using **Apache Camel** routes, facilitating the extraction, transformation, and loading of data, which significantly contributed to efficient data management and accurate reporting within the full stack solution.
* Set up and maintained **CI/CD pipelines** using tools like **Jenkins** or **Travis CI**. Automated testing and deployment processes to streamline development workflows.
* Developed and executed unit tests using **JUnit or TestNG** to ensure the reliability and correctness of Java code. Actively participated in test-driven development (TDD) practices to improve code quality.
* Utilized version control systems like **Git** to manage code repositories and collaborate effectively with team members. Worked on branches, merged code, and resolved merge conflicts.

**Environment:** Core Java, Angular 4, SQL, JDBC, API, AWS, CI/CD, Jenkins, Oracle Database, PostgreSQL, Apache Camel, Travis CI, Junit, TestNG, Git.

**EDUCATION**

Masters in computer and information systems in New England College Henniker, New Hampshire**.**