**KARTHIK N | Senior Full Stack Java Developer** |

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**Farmington hills, Michigan**

**Open to Relocation**

**Summary:**

* Total **10** years of IT experience in all phases of **Software Development Life Cycle** such as Planning, Analysis, Design, Implementation, Testing and Maintenance of **Web Based, Client - Server and N-tier Architectures**.
* Extensive experience in utilizing various Spring modules including **Spring Core, Spring MVC, Spring Boot, Spring Data, Spring AOP, Spring mail, Spring Batch, Spring Cloud and Spring Security** to develop robust and scalable enterprise applications with streamlined workflows and enhanced security features.
* Proficient in implementing and integrating **Hibernate, an ORM framework, along with Spring Data JPA**, to facilitate efficient mapping between object-oriented models and relational databases, ensuring streamlined data management and persistence within enterprise applications.
* Expertise in designing and developing large scale enterprise applications using **Spring Boot and Web Services for SOAP and RESTful API development**, creating robust and scalable applications and Expertise in **Microservices architecture** with **API Gateway** and **Hystrix for Circuit Breaker** and Expertise in **Service Discovery**: Implemented **Eureka for dynamic microservices** communication.
* Worked extensively **with JAVA 8** features like **Stream API, Date and Time API, Lambda Expressions, Functional Interfaces, Predicates, Functions, and Default methods**. and Hands on experience in **JAVA 11** features like **Collection API,** **HTTP Client API, and String methods.** Well-versed with **core Java** concepts like **collections, multithreading, Exceptions and Generics**.
* Proficient in SOLID principles along with design patterns including **Singleton, Factory, Abstract Factory, and Builder, ensuring robust and maintainable software design and development.**
* Extensive hands-on experience in provisioning Amazon Web Services (AWS) and proficiently utilizing a wide range of AWS services, including EC**2, VPC, IAM, Security Groups, S3, Route 53, CloudWatch, AWS Lambda, Amazon SQS, Amazon SNS, Amazon ECS, Amazon EKS, Amazon RDS, AWS Code Build, AWS Code Deploy, and AWS Code Pipeline**, to design and deploy scalable, secure, and highly available cloud solutions for diverse enterprise applications.
* Demonstrated expertise in effectively managing and optimizing various **Azure cloud services, such as Azure Virtual Machines (VMs), Azure Virtual Network, Azure Active Directory (AD), Azure Application Gateway, Blob Storage, Azure Policy, Azure Functions, Azure Monitor, Azure Kubernetes Service (AKS), Azure SQL Database, Azure Key Vault, Azure Pipelines, Azure Service Bus Queues,** and Azure Service Bus Topics, ensuring high performance and availability for mission-critical applications and workloads.
* Proficient in utilizing a range of CI/CD tools, including **Git and GitHub** for version control**, Jenkins** for continuous integration and continuous deployment (CI/CD) pipelines, **Kubernetes** for container orchestration **Docker** for containerization, along with a comprehensive understanding of Jenkins Pipeline**.**
* Extensive hands-on experience in **front-end web development** using **HTML5, CSS, JavaScript, TypeScript, React, and Angular**
* Expertise in utilizing **Angular** for front-end development, leveraging **TypeScript** for efficient and Demonstrated proficiency in utilizing Agular’s comprehensive features, including **data binding techniques such as interpolation, property binding, event binding, and two-way data binding and** implementing **various Angular directives, including component and structural directives.**
* Proficient in developing dynamic web applications with **React**, utilizing the virtual DOM for efficient UI rendering. Skilled in managing application state, **React Router for navigation, Context API and Redux for state management, and Hooks for functional components.**
* Experience with Relational Database Management System (RDBMS) using **MySQL and Oracle**, and NoSQL Database using **MongoDB and Cassandra.**
* Extensive experience in working with various message broker systems, **including JMS, RabbitMQ, ActiveMQ, and Kafka.**
* Proficient in **JUnit and Mockito** for unit testing Spring Boot Rest API services, with expertise in JMeter for load testing and familiarity **with Cucumber** for effective functional testing, ensuring robust code functionality and high-quality software delivery **and** , Load testing and logging using **Log4J**.
* Good Experience in implementing Web Services such as **SOAP** using **WSDL**, **JAX**-**WS** and **REST** using **Spring** **Boot**, **Apache** **CFX**, **JAX**-**RS** and **Jersey** **Frameworks**.
* Experience working with persistence frameworks like **Hibernate**/**JPA** for mapping Java classes with databases and using **Hibernate** Query Language (**HQL**).
* Proficiency **in Python or Node.js** with experience in designing and building robust backend systems and APIs.
* Experience in database modeling, design and development of **PL**/**SQL** stored procedures, packages in relational databases: **Oracle**, **IBM DB2, MySQL, Sybase, SQL Server, MongoDB**.
* Strong experience with NO SQL databases such as **MongoDB**, **Cassandra**, and **DynamoDB** development (reports, schema design, map reduce functions) using **ODM** (Object Document Mappers) like **Mongo’s** Connector, **Cassandra** Node Connector.
* Very good working knowledge of using **flux** architecture in **React**.**JS** for building client-side web applications.
* Experience in building isomorphic applications using **React**.**JS** and **Redux** with **Graph QL** on the server-side.
* Experience in working with **Angular** framework that comes with faster debugging and improvised **CSS** class and **Style** binding.
* Performed Unit testing on **Angular** applications using tools like **Karma**, **Jasmine**.
* Hands-on experience with build tools like **ANT**, **Maven**, **Docker**, **Gradle** and logging tools like **Log4J**.
* Good Experience in software configuration management using **CVS**, **GIT** and **SVN**.
* Experience in creating **Docker** Containers leveraging existing **Linux** Containers and AMI's in addition to creating **Docker** Containers from scratch.
* Deployed **Java** **microservices** to **Kubernetes** clusters, utilizing Deployment and Stateful Set resources for different application needs.
* Configured and maintained web/application servers like Apache **Tomcat**, **JBoss**, **IBM** **WebSphere**, **WebLogic**.
* Excellent **team player**, **quick learner** and **self-starter** with effective communication, motivation and organizational skills combined with attention to details and business process improvements.

**Technical Skills:**

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| **Programming Languages** | Core java, Java 8,11, SQL, Typescript, Python,Nodejs |
| **Java/J2EE Technologies** | Servlets, EJB, JPA, JDBC, JSP, JSTL, JNDI. |
| **Web Technologies** | HTML 5, CSS 3, JavaScript, Bootstrap 4, Angular, React |
| **Frameworks** | Spring core, Spring Boot, Spring MVC, Spring Data JPA,Spring Security, Spring mail Cloud, Spring Batch, SOAP, Web Services and Microservices |
| **Messaging Services** | Microservices with Kafka, RabbitMQ, ActiveMQ |
| **ORM** | Hibernate |
| **Databases** | Oracle 10g, MySQL, MSSQL, MongoDB, AWS DynamoDB |
| **Build Tools** | Maven and Gradle |
| **CI/CD Tools** | GitHub, Jenkins, Docker |
| **Operating Systems** | Windows, Mac, Linux. |
| **Web Servers** | Tomcat, Web Logic, WebSphere |
| **Cloud Environment** | AWS, Azure, PCF, Netflix Eureka, Kubernetes. |
| **IDEs** | Eclipse, IntelliJ Idea, Spring Tool Suite, Visual Studio Code |
| **Development Tools** | SQL Developer, Putty. |
| **Version Control Tools** | **Git, Bitbucket** |
| **Methodologies** | **Agile, Scrum and Waterfall** |

**PROFESSIONAL EXPERIENCE:**

**McKesson Health,**  **June 2022– present**

**Irving, Texas**

**lead Java developer**

**Responsibilities:**

* Worked with **Agile methodology** and actively participated in Scrum meetings as a part of SDLC, to produce quality deliverables within time.
* Performed **Design, Development, Test, Validation, and Integration of the software**.
* Worked on system maintenance and enhancement requests that include web development.
* Coded the backend logic using Java **Collections, Exceptions and Generics** and **Java 8 Stream API, Date and Time API, Lambda Expressions, Functional Interfaces, Predicates, Functions,** and handled service requests using spring boot Controllers.
* Implemented web-based application using spring and spring modules: **Spring**, **Spring MVC, Spring security, Spring Boot and Spring Data JPA Technologies.**
* Used **Spring Boot, Spring AOP, Spring and Spring DAO** to develop a **RESTful.**
* Authenticated and authorized API requests the APIs **by JSON** Web Tokens (JWTs) using Spring Security.
* Extensive experience in developing Rest APIs in **Microservices** using Spring Boot and performed unit testing with **Junit and Mockito.**
* Developed the backend of the application **using Spring Boot and integrating** with the database using JPA-Hibernate and **Spring Data JPA**.
* Lead the design and architecture of **React.js**-based applications, ensuring scalability, performance, and maintainability.
* Implemented client-side interfaces using **ReactJS**, Redux for SPA development, and react-router for routing components.
* Conduct **code reviews, enforce coding standards**, and mentor junior developers to maintain high-quality codebase.
* Design, develop, and maintain backend systems using **Python and Node.js**, integrating with frontend components.
* Utilized AWS services like **API Gateway, Lambda, S3, DynamoDB**, and to build scalable and resilient applications.
* Designed and implemented **CI/CD pipelines** for automated build, test, and deployment processes, ensuring a streamlined development workflow.
* Lead and mentor a team **of developers, fostering a collaborative** and innovative environment.
* Deploying the application **on AWS** and configuring the infrastructure.
* Used Amazon Web Services (**AWS**) provisioning and good knowledge on AWS services like **Elastic Compute Cloud (EC2), Simple Storage Service** (**S3**), **Route53**.
* Used Spring Data JPA and Spring Data MongoDB repositories to perform CRUD operations on the MongoDB**.**
* Expertise in bug fixing and addressing any issues that are raised by the testing team.
* Worked with **Microservices utilizing API Gateway using Zuul.**
* Interacted with DevOps team for migrating applications to AWS and manage applications on cloud.
* Used **GIT** to maintain the version of the files and took the responsibility to do the code merges from branch to trunk and create new branch when new feature implementation starts.
* Redesigned the existing modules to improve performance by using caching techniques and table joint to reduce the database hits.
* Experience in the setup of continuous Integration (CI) and continuous Deployment (CD) process for the application using **the Jenkins and** Configuring and maintaining **Kubernetes clusters** in both on-premises and cloud environments.
* Experience with container-based deployments **using Docker**, working with Docker images and **Docker Hub.**
* Implemented Spring Boot Microservices and used **Spring Kafka API** calls to process the messages by reading from the Kafka cluster setup.
* Used **Kafka’**s functionalities such as distribution, partition, replicated commit log service for messaging systems.

**Environment:** **HTML, CSS, Bootstrap, React,Nodejs,python, Java 8,11, JPA-Hibernate, Spring Data JPA, Spring Boot, Spring Security, Spring AOP, Spring Batch, Maven, Junit, Mockito, RDBMS Oracle, REST API/Web Services, Micro Services, Kafka, GitHub, Jenkins, Dockers, Docker Hub, AWS, Jira, Eclipse, IntelliJ, VS Code**.

**PNC Bank Mar 2019 – May 2022**

**Cresskill, New Jersy**

**Sr Full Stack Java Developer**

**Responsibilities:**

* Involved in Daily **SCRUM meetings** and in **Software Development Life Cycle (SDLC)** as requirements, gathering, modeling, analysis, architecture design, development, and testing of applications using SCRUM methodology.
* Developed server-side applications to interact with the database using **Spring Boot and Hibernate**.
* Developed the project **using Microservices** based architecture and spring boot services.
* **Used Spring Integration, Spring Data Jpa** and developed the REST based Microservices.
* Used **Spring Boot, Spring AOP, Spring Batch and Spring DAO** to develop a RESTful API that provides data to the React JS and to improve application performances.
* Used Swagger to interact with **API endpoints** of the Microservices.
* Implemented **Kubernetes** Services for service discovery and load balancing for Java applications within a cluster.
* Worked on project design, migration, and Azure cloud technologies like **Azure SQL, Storage Services, Azure Functions, and App Services.**
* Implemented Spring IOC for **Dependency Injection, Spring AOP for logging, and Spring Security** for authentication and authorization in **RESTful environments**.
* Implemented security measures (input validation, encryption) in Java applications.
* Applied Java **design patterns** (Singleton, Factory) for software architecture.
* Experienced in **Java collections** framework for efficient data manipulation.
* Proficient in **Eureka server** for providing reusable and maintainable services by registering existing services based on **Spring Cloud**.
* Working knowledge **in Spring Data JPA** for developing JPA Repository and CRUD operations.
* Utilized **Apache Kafka** for asynchronous data exchange between multiple applications.
* Orchestrated OAuth-based **Single Sign-On** (SSO) for internal Java applications.
* Designed front-end pages using **React, HTML, CSS, JavaScript, Bootstrap, jQuery, TypeScript**, and AJAX for responsive, dynamic pages.
* Implemented client-side interfaces using **ReactJS**, Redux for SPA development, and react-router for routing components.
* Successfully migrated data from **MySQL to PostgreSQL**, ensuring data consistency with minimal downtime.
* Developed PL SQL, Spark stored procedures, functions, triggers, cursors, sequences, and indexes for batch processes.
* Utilized **Splunk** for capturing, indexing, and correlating real-time application logs.
* Proficient in **Maven** for building Java applications, Jenkins for CI/CD support, Git for version control, JUnit for unit testing, and **Log4J** for logging.
* Understanding of API Management with security integration in **Azure Cloud**.
* Created resource groups and virtual machines, monitored Azure Log Analytics for troubleshooting critical issues **in Azure Cloud**
* Used effectively managing and optimizing various **Azure cloud services, such as Azure Virtual Machines (VMs), Azure Virtual Network, Azure Active Directory (AD), Azure Application Gateway, Blob Storage, Azure Policy**.
* Good understanding in the setup of continuous Integration (CI) and continuous Deployment (CD) process for the application using **the Jenkins and** Configuring and maintaining **Kubernetes clusters** in both on-premises and cloud environments.
* Experience with container-based deployments **using Docker**, working with Docker images and **Docker Hub.**
* Implemented Spring Boot Microservices and used **Spring Kafka API** calls to process the messages by reading from the Kafka cluster setup.
* Used **Kafka’**s functionalities such as distribution, partition, replicated commit log service for messaging systems.
* Used Bitbucket for version control along with creating and managing repositories, branching and merging code.
* Implemented **Single Sign-On (SSO) solutions**, such as OAuth 2.0 and OpenID Connect, to provide seamless authentication and authorization experiences across multiple applications and platforms.
* Implemented **SLFf4J for Logging Errors**, debugging and tracking using loggers, and components.
* Implemented test and logging frameworks using **JUnit**.

**Environment:** **JAVA, HTML5, CSS3, JavaScript, jQuery, Bootstrap, React16, AZURE, RESTful, SLF4J, JUnit, Datadog, Apache Kafka, Docker, Postgres, Spring boot, Spring Data, NodeJS, Express’s**.

**Progressive Insurance**  **July 2016 – Jan 2019**

**Mayfield Village, OH**

**Sr Full Stack Java Developer:**

**Responsibilities:**

* Developed **RESTful API** web services using new models, services, and software, utilizing Angular 5 for front-end data binding and interpolation.
* Implemented Spring Framework **(Core, Boot, Security, AOP, Data JPA) for** login mechanism using Basic Authentication and JWTs.
* Provided both authentication and authorization using Spring security.
* Performed technical and code - level analysis on multiple applications for the project.
* Implemented AOP and IOC concept using Ul Spring 2.0 Framework.
* Implemented **Microservices architecture with Hystrix for Circuit Breaker** and **Fault Tolerance**, Ribbon for Load Balancing, and Eureka and AWS Elastic Load Balancer for Service Discovery.
* Utilized RabbitMQ as a messaging service.
* Expertise **using Cassandra DB for NoSQL** storage to handle data persistence and retrieval.
* Involved in Daily **SCRUM** meetings and weekly **SPRINT** Meetings.
* Involved in **Software Development Life Cycle (SDLC)** as requirements, gathering, modeling, analysis, architecture design, development and Testing of application using **SCRUM** methodology.
* Implemented **Spring** **boot** **Microservices** to process the messages into the **Kafka** cluster setup.
* Experience in using build/deploy tools such as **Jenkins, Docker**, and **AWS** for Continuous Integration & Deployment for **Microservices**.
* Utilized core **java** concepts like **Multithreading**, **Collections**, **Exception** **Handling** and **Annotations**.
* Widely utilized **Java 8** features for efficient sorting techniques, include lambda expressions, parallel operations on collections, and multithreading.
* To store and handle the data, used the **Java 8** features Streams and Lambda expressions.
* Managed project **dependencies, plugins**, and goals for **Spring Boot** application by configuring **pom.xml**.
* Implemented REST **Microservices** using **Spring boot** and **Hibernate ORM**. Generated Metrics with method level granularity and Persistence using Spring AOP and **Spring Actuator.**
* Closely worked with the **Kafka** Admin team to set up **Kafka** cluster setup on the QA and Production environments.
* Utilized **Redis**-supported data serialization formats like **JSON** or **Message Pack** to store and retrieve Java objects efficiently.
* Ensured **OAuth** 2.0 compliance with **RFC** 6749 standards, maintaining compatibility with various **OAuth** providers and frameworks.
* Created auto-generated documentation for all **REST** calls using **Swagger** API.
* Successfully implemented **JDBC** connections in **Java** applications to interact with **Oracle** database.
* Designed and developed the UI using **Angular, Bootstrap, Jasper Report, HTML, CSS, and JavaScript**.
* Implementation of **NodeJS** is mainly used for authentication, authorization, session maintenance, and design of wireframe using **Angular** and creating services and exposing it to the backend which runs on **Spring Boot**.
* Integrated **Hibernate** **ORM** framework with **Oracle** databases to streamline data access and management in **Java** applications.
* Build and maintain **SQL scripts, indexes, and complex queries for data analysis and extraction.**
* Develop a business continuity plan for the **SQL** Server **Databases** using **JDBC** drivers.
* Utilized **Cloud** **formation** and launch configurations to automate repeatable provisioning of **AWS** resources for applications.
* Built **AWS** cloud formation templates, configured Auto scaling for **EC2 instances**, and participated in the automated provisioning of the AWS cloud environment using **Jenkins**.
* Utilized Amazon Cloud Watch to monitor **AWS** services and Amazon CloudWatch logs to monitor applications.
* Worked on inspection and version control maintenance using **Git branching** strategy. **JIRA is used** for the defect management system.
* Created charts for the **log data** using **Splunk**, then **analyzed the log data** to determine what customers could expect.

**Environment:- Angular, XML, JSON, JAVA 8, AWS S3, MERN, REST API, Spring MVC, Spring Boot, SQL, Git branching, Git, JIRA, Jenkins, Docker, TFS, AWS EC2, S3 Buckets, CloudWatch, Swagger, Splunk, Jenkins**.

**IBM India Private Limited August 2013 - June 2015**

**Pune,India**

**Full Stack Java Developer:**

**Responsibilities:**

* Involved in analysis and design phases of **Software Development Life Cycle (SDLC).**
* Expertise in Core **Java** features such as **Multi-Threading, Collections, Data Structures, Generics, Serialization, File I/O and Exception handling** to efficiently process high volume transactions.
* Strong understanding of **Java** fundamentals, such as classes, inheritance, polymorphism, and exception handling.
* Worked on **Spring** framework for cross cutting concerns and IOC for dependency injection.
* Developed Application using **Spring MVC architectures** widely with annotations, dependency injection, IOC, integrated with the **Struts** framework with views based on **JSP’s**.
* Expertise in **MVC** architecture using **Struts**, **Spark** with features like Validation, Tiles frameworks and Internationalization.
* Experienced **Spring Hibernate** template to store, manipulate, retrieve the data, and represented the data in the form of a tree which has seven hierarchies and implemented drag and drop functionality to it.
* Hands-on experience in **Hibernate** data access layer to access and update information in the database.
* Designed and developed Single page applications using **NodeJS, GULP, WEBPACK (ES6).**
* Involved in Bug fixing of various modules that were raised by the testing teams in the application.
* Implemented **NoSQL persistence pattern** forsomedata within the app to increase performance by indexing.
* Proficient in using **Oracle** **SQL** Developer for database development, administration, and reporting.
* Utilized **Oracle** **AWR** reports and **SQL** tuning tools for performance analysis.
* Working knowledge in **GAE version control** for the **Day-to-Day** development activities **while migrating**.
* Leveraged **Drools Rule Engines** with corresponding to validate the business User Roles.
* Utilized version control repository **SVN** (Subversion by Apache) and **JIRA** for issue tracking.
* Experienced in **Maven** as a build tool and retrieved all the dependencies required for the application.

**Environment:** **Waterfall, HTML, CSS, JavaScript, jQuery, JSP**, **Servlets, EJB, Spring, Spring MVC, Hibernate, Oracle, Application server, Drools, Maven, Junit, JBoss, MYSQL, ANT**.

**Cisco Systems Ind Pvt ltd June 2012 - August 2013**

**Hyderabad, India**

**Java Developer:**

**Responsibilities:**

* Design, develop, and **maintain Java-based applications, leveraging JDBC, Servlets, Struts, Spring, and SQL** for backend functionalities.
* Collaborate with cross-functional teams to integrate **MongoDB and Cassandra databases**, enabling seamless data operations.
* Implement AOP techniques using **Spring AOP for logging, auditing, and caching** within Java applications.
* Conduct rigorous unit and integration tests **using JUnit and Mockit**o to ensure high-quality code and system stability.
* Employ **Maven** for automated build processes, managing project dependencies effectively.
* Integrate MongoDB and Cassandra databases with frontend technologies **(HTML, Java Spring Boot APIs, CSS**), enabling efficient data retrieval and manipulation.
* Develop and execute ad-hoc queries for **data updates, insertion, deletion, and retrieval** within **HTML webpages** and Java Spring Boot APIs.
* Ensure **database** performance optimization and data consistency across various technology stacks.
* Implement **AOP** (Aspect-Oriented Programming) techniques using Spring AOP to provide cross-cutting concerns such as logging, auditing, and caching.
* Oversee project progress, **tracking issues, and managing bugs** using **Jira**, ensuring smooth operation within the Waterfall framework.
* Coordinate with development teams, ensuring adherence to project timelines and milestones.
* Facilitate communication among team members, stakeholders, and management for effective project execution.
* Work with **GitHub** for version control and collaborating with other team members.
* Configure and automate continuous integration and continuous deployment **(CI/CD**) pipelines using Jenkins.
* Use **SonarQube** for code quality checks and ensuring compliance with industry standards and best practices.
* Track and manage project progress, **issues, and bugs using Jira**.
* Use **Eclipse or IntelliJ** as the primary IDE for development, debugging, and testing.

**Environment**: **Java, JPA-Hibernate, structs,jdbc,servlet, Spring AOP, Spring Core, Maven, Junit, Mockito, RDBMS Oracle, soap, GitHub, Jira, Eclipse, IntelliJ**