**K.Rajasekhar**

**Java Full Stack developer**

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**SUMMARY**

* Over 10 years of experience as a **Full stack Java Developer** in all phases of the Software Development Life Cycle (SDLC), including requirement gathering, design, coding, testing, deployment, and documentation. Actively participate in **Agile methodologies**, contributing to stand-ups, sprint planning, retrospectives, and other Scrum activities.
* Expertise in designing and developing server-client and web-based applications using **Java/J2EE** technologies, adhering to **Object-Oriented Design (OOD)** principles like polymorphism , Inheritance & Encapsulation .
* Proficient in Core **Java SE, 8/17,** including **Streams API, Lambda functions, Functional Programming, Generics, JDBC, Multi-Threading,** and **Java Concurrency utilities**.
* Advanced knowledge of frameworks such as **Spring Boot**,**Spring ORM**, **Spring JMS, Spring Security**, **Spring Data JPA**, **Spring AOP**, **Spring Core**, and **Hibernate** for streamlined development processes.
* Extensive experience in developing **RESTful** web services with **JSON** interfaces, ensuring efficient data interchange between client and server applications.
* Skilled in front-end development using **HTML, CSS, Bootstrap, JavaScript, TypeScript**, **Angular**, and **ReactJS** frameworks.
* Proficient in developing and deploying scalable, event-driven applications using **Node.js** and modern **JavaScript** frameworks like **Angular** and **ReactJS**, delivering high-performance user experiences.
* Experienced in full-stack development with a strong focus on integrating CI/CD pipelines, containerization with **Docker**, and monitoring tools like Prometheus and **Grafana** to ensure seamless deployment and system reliability.
* Extensive experience on MVVM frameworks like **Angular 8,11,15.**
* Proficient in developing scalable server-side applications using **Node.js** and implementing event-driven architecture.
* Strong understanding and implementation of design patterns such as **MVC**, **Singleton**, **Factory Pattern**, **Builder Pattern, Abstract Factory Pattern, Dependency Injection** and **Behavioral Pattern**.
* Experienced in building scalable and maintainable user interfaces using **Angular**, employing features like **Data Binding**, **Dependency Injection** and **Routing** for enhanced functionality.
* Proficient in creating Single Page Applications (SPA) with React, utilizing **Hooks**, **Redux** for state management, **React Router** and ensuring high performance and maintainability.
* Expertise in implementing **Microservices architecture** with **Spring Boot** and **Spring cloud** and integrating with **REST** and message brokers like **Apache Kafka**.
* In-depth knowledge of both relational databases (**Oracle**, **MySQL**, **SQL** Server, **PostgreSQL**, **DB2**) and NoSQL databases (**MongoDB**).
* Proficient in using **Hibernate** as an **ORM** tool with **Hibernate Connection Pooling**, **HQL**, **Hibernate Caching**, **Hibernate Transactions** and **Optimistic Locking**.
* Experienced in Continuous Integration/Continuous Deployment (CI/CD) practicesutilizing **GitHub**, **Jenkins**, **Docker** and **Prometheus**.
* Experienced in migrating Java applications to **AWS** cloud infrastructure, including**EC2**, **S3**, **RDS**, **Elastic Load Balancing**, **SQS**, **IAM**, **CloudWatch**, **EBS**, **CloudFront** and **AWS Lambda**.
* Hands-on experience with containerization using **Docker** and orchestration across different AWS environments.
* Experience with application monitoring systems tools such as **Kibana**, **Prometheus** and **Grafana**.

**Technical Skills:**

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| --- | --- |
| Programming Languages | Java 8/11/17, J2EE 6/5 JavaScript, TypeScript, SQL, Python |
| Scripting Languages | Shell Scripting |
| Front-End Web Technologies | HTML 5, CSS 3, Java Script, bootstrap 4, AJAX, jQuery, XML, JSON, Node JS, Angular 11/14/15 React JS, XML, XSL, XSLT, XSD, JSON |
| Back-end Web Technologies | Spring Boot ,Spring Security, Spring AOP,Spring cloud , Spring MVCREST API Web Services, Data JPA, JPA, Hibernate3.x/2.x, |
| Messaging Services | Apache Kafka, RabbitMQ |
| Database | Oracle, My SQL, PostgreSQL, IBM DB2, Mongo DB, Hadoop File System, Cassandra DB |
| Build Tools | Maven, Gradle |
| Version Controls | GitHub, Bit Bucket, GIT |
| DevOps Tools | Jenkins, JIRA |
| Cont. & Orch. Tech | Docker, Docker Hub, Kubernetes |
| Cloud Technologies | AWS:CLI, API Gateways, Faregate, Cloud Watch, EC2, RDS, Lambda, S3, SQS, ECS, EKS  Azure: Functions, Cosmos, Virtual Machines and APIM |
| Web Servers | JBoss, WebSphere8.x/7.x/6.x, WebLogic 10.3/9.2/8.1/7.0, Tomcat 7.0, 8.0, Nginx, |
| IDE(s) | Eclipse, Spring Tool Suite (STS), Visual Studio Code, IntelliJ |
| Development Tools | TOAD, SQL Developer, Putty |
| Operating Systems | UNIX, Linux, Windows. |

**PROFESSIONAL EXPERIENCE:**

**Project: Card Autopay Duration: Jun 22 to Till Date**

**Client: Truist Bank, Charlotte, NC**

**Role: Senior Java Full Stack Developer**

Truist Bank is a leading financial institution formed from the merger of BB&T and SunTrust, offering a wide range of banking, investment, and insurance services. The bank focuses on providing innovative solutions and exceptional customer service to individuals, businesses, and communities.

**Responsibilities:**

* Involved in all phases of the Software Development Life Cycle (**SDLC**) using Agile Scrum methodology.
* Worked closely with business stakeholders to convert requirements into technical specifications and Agile backlogs, improving responsiveness to evolving business needs.
* Developed Single Page Application (**SPA**) using **Angular 15, Typescript, CLI, HTML5, CSS3, JavaScript** and **Bootstrap**.
* Designed and developed **GraphQL APIs** to facilitate efficient, flexible data querying and manipulation for front-end applications.
* Integrated **GraphQL** with **Spring Boot** back-end services to streamline data retrieval and improve client-server communication.
* Optimized data fetching strategies using **GraphQL resolvers** and **schema stitching** to enhance application performance and scalability.
*  Implemented secure data access with **GraphQL**, integrating authentication and authorization mechanisms using **Spring Security** and **OAuth 2.0**.
* Configured **Angular** Router for setting up multi-page navigation, including nested routes, lazy loading, and guard mechanisms to handle route access and authentication.
* Used **HTML5** for displaying the contents requires on a web page, **CSS3** for styling, and Bootstrap for quickly designing and customizing the web pages.
* Utilized Web 2.0 **UI/UX** frameworks, such as **Angular**, to design and implement user-friendly interfaces, delivering a seamless user experience for customers.
* Worked with **Angular 15** Controllers, Filters, Validations, Service, Factory, and creating custom directives to interact with the **Restful services** and connect with the back end.
* Worked on some of the new features of **Angular 15** like new if-else syntax, ng-templates, and form validators.
* Successfully transitioned multiple on-premises applications to cloud environments, leveraging **AWS** services for enhanced flexibility and scalability.
* Implemented **Angular 15** form validations and used Bootstrap to display errors, warnings, and info messages.
* Worked with Configuration management tools such as **ansible, terraform** and **docker**.
* Developed the backend of the application using **Spring Boot** and handled the authentication, authorization, and access-control features by using **Spring Security.**
* Used **Spring** Dependency Injection, **Spring** MVC components, **Spring** Annotations and other **Spring** Modules to implement the business layer and navigation part of the application.
* Implemented **ELK (Elastic Search, Log stash, Kibana)** stack to collect and analyze the logs from **spark** cluster.
* Designed and implemented **RESTful APIs** following best practices, ensuring high scalability and security.
* Responsible for implementing **Map Reduce** programs into **Spark** transformations using **Spark** and **Scala**.
* Used **Postman** and **SoapUI** to test web services and Implemented **OAuth 2.0** token-based authentication,
* Developed Microservices using **Spring Boot, Spring Cloud** and **Spring Security.**
* Developed POC’s to create an interface between Backend to Frontend by using **MongoDB, Angular 15**.
* Utilized **Java 17** and **Spring Boot** to build and maintain enterprise-level applications, incorporating TDD and BDD practices, and developed billing systems to manage and reduce costs associated with overpayment recovery services.
* Developed and managed microservices for the payment processing module, including payment scheduling, authorization, execution, and retry mechanisms, ensuring accurate and timely processing of payments and effective communication with customers.
* Worked with **Splunk** and **ELK** stack for creating monitoring and analytics solutions.
* Design and deploy new features to streamline all manual operations.
* Involved in integrating hive queries into the spark environment using **Spark SQL**.
* Automated data validation and processing **SQL** scripts to support real-time reporting requirements, reducing manual data entry errors and increasing data accuracy.
* Utilized **AWS Cloud Watch** to monitor operational and performance metrics during load testing.
* Maintained cross-browser compatibility using libraries like **jQuery** and achieved responsiveness using **Bootstrap**, and **CSS**, and worked on identifying and fixing the bugs using the **Jira**.
* Configured and maintained **Jenkins** pipelines for CI/CD, automating build, test, and deployment processes to ensure quick and reliable delivery of code to production environments.
* Performed System Integration Testing and User Acceptance Testing for providing support to the applications and used **Jenkins** for deploying the applications.
* Worked on developing and modifying the application program by Unit testing using different test scenarios and test cases using **JUnit** and **Mockito**.
* Worked using Agile methodology in the **SDLC** phase with a TDD approach to building the applications.
* Worked on Integration of **Spring** and **Hibernate** Frameworks using **Spring ORM** Module.
* Worked using **Spring** dependency injection, annotations, and **Spring MVC** components to implement the business layer and navigation part of the application.
* Worked on developing Microservices using **Jersey** and **spring**.
* Integrated **Groovy** applications into CI/CD pipelines to enable automated testing and deployment processes.
* Implemented **RESTful APIs** and **SOAP** web services using **Groovy** for integration with client applications.
* Worked on monitoring **Kafka brokers** and **Zookeeper** to detect and troubleshoot issues.
* Demonstrated a strong understanding of **SQL/ORM** technologies, effectively handling relational databases, and incorporating **NoSQL** technologies when applicable for specific use cases.
* Extensive experience in deploying, managing and developing **MongoDB** clusters. Experience in creating **JavaScript** for using **DML** operation with **MongoDB**.
* Manage **S3buckets** for storing static files, backups, and media assets securely and efficiently.
* Implemented lifecycle policies to automatically transition data on **S3** to different storage classes and delete obsolete data
* Configured and managed **RDS** instances for relational databases **Oracle**, ensuring data integrity and availability.
* Worked in a CI/CD environment with **Jenkins, Maven, AWS, Ansible** and **Terraform.**
* Enhanced backend **REST API** performance using **Spring Boot’s** actuator metrics and integrated monitoring dashboards in **Grafana.**
* Designed and developed serverless applications using **AWS Lambda**, **API Gateway**, and **Step Functions** to enable cost-effective, scalable architectures.
* Connect **Lambda** with services like **S3, DynamoDB,** and **API Gateway** to create a fully serverless architecture.
* Built **Cassandra** Cluster on both the physical machines and on **AWS**.
* Conducted unit and integration testing for **GraphQL** APIs using **JUnit**, **Mockito**, ensuring data integrity and security compliance.
* Utilized **GitLab** for version control and branching strategies, facilitating collaborative development in line with Agile methodologies.
* Developed CI/CD pipelines in **GitLab** to automate testing and deployment, ensuring rapid and error-free deployment of updates to production environments.
* Configured, and manage **EC2** instances for deploying back-end services and applications.
* Configured auto-scaling groups and load balancers to ensure high availability and scalability on **EC2**.
* Automated **Cassandra** Builds/installation/monitoring etc.
* Worked on Automated cloud deployments using **AWS** cloud formation templates and **terraform**.
* Conducted root cause analysis on supply chain data anomalies, working with teams to resolve discrepancies in inventory, orders, and deliveries.

**Environment**: Java 17, Maven, Hibernate, Angular, GraphQL , HTML, Kafka, RabbitMQ, Apache Tomcat, Json, Java Script, Spring, Spring Boot, Oracle, Mongo DB, JDBC, Eclipse, JUnit/Mockito, JMeter, Selenium, Jenkins, GitHub, Docker, Log4j, AWS EC2.

**Project**: **Freya Claims Engine Duration: Jul 19 – Apr 22**

**Client: UnitedHealth Group, Inc, Salt Lake, UT**

**Role: Senior Java Full Stack Developer**

UnitedHealth Group is a major health care and insurance company in the U.S., offering health benefits and services through its UnitedHealthcare and Optum divisions. It focuses on improving health care quality, access, and outcomes. The company combines health insurance with data analytics and pharmacy care to enhance patient care.

**Responsibilities**:

* Responsible for developing UI pages using **HTML, CSS, TypeScript, jQuery**.
* Utilized **ReactJS** to create interactive UIs employing one-way data flow, **JSX** and React Native concepts.
* Developed interactive UIs with **ReactJS**, leveraging one-way data flow, the **virtualDOM**, React Native, integrated **RESTfulAPIs**, implemented **Redux** for state management and optimized performance for scalable web applications.
* Worked with **GraphQL subscriptions** for real-time data updates, enabling responsive and interactive user experiences.
* Utilized **GraphQL Federation** for managing distributed **GraphQL** services within a microservices architecture.
* Developed reusable **GraphQL** schema definitions, types, queries, mutations, and resolvers to streamline development and improve maintainability.
* Used Form validations for validation of the input fields of the forms with the data that existed in the database.
* Developed modules using **Node**.**js** and promises.
* Integrated **MongoDB** with Mongoose in **Node.js** applications, designing schemas and performing CRUD operations for dynamic, schema-less data storage.
* Managed real-time data updates using WebSockets with **Node.js** and **Socket.io**, enabling interactive features like live notifications, chat applications, and real-time collaboration.
* Developed REST-based services within applications to have a communication channel within application modules.
* Developed and consuming Restful Web Services using Media formats like **JSON**, **XML** and Textdataachievedin **RESTful** Services.
* Implemented **Service Oriented Architecture** (SOA) by developing and consuming **RESTful** web services based on **JAX**-**RS** and **Jersey**.
* Developed, Enhanced and maintained a **microservices** application using **SpringBoot**.
* Migrated independent business applications from **Monolithic architecture** to **Microservices oriented architecture**.
* **Microservices** developed using **SpringBoot** and **SpringCloud**, and deployed to **MicrosoftAzure**.
* Set up and deployed **Azureinfrastructure** using **ARM** templates, including **VirtualNetworks**, **VirtualMachines**, **BlobStorage**, **CosmosDB** and **SQLDatabase**.
* Designed and implemented a robust **RESTfulAPI** using **SpringMVC** Controllers, leveraging Jackson for efficient **JSON** to Java object mapping, and utilizing **JDBCJPA** for seamless integration with SQL Server databases, ensuring high performance and scalability. Selecting the appropriate Azure service based on compute, data or security requirements.
* Integration of **MicrosoftAzure** with other application infrastructures
* Implemented Cloud capabilities like Centralized Configuration, Load Balancing, Service-to-Service call using Feign, Service Registry and Discovery using Eureka in **SpringCloud**.
* Used **OracleAPI** Gateway for service-oriented architecture (**SOA**) and its deployment across domain boundaries.
* Developed an extensible client library that can consume and process messages from multiple **RabbitMQ** brokers.
* Extensively used **SpringIOC**, configured application Context files and use of dependency injection using Spring annotations.
* Implemented the **SpringAOP** Aspect Oriented Programming for Logging, declarative Transaction Management, creating and applying transaction advice and configuring the joint points.
* Involved in batch processing using **SpringBatch** framework to validate feed files and load data into corresponding tables.
* Worked with **Springscheduler** for automatic scheduling of spring batch jobs.
* Implemented automated local user provisioning instances created in**Azurecloud**.
* Worked with installation, configuration and troubleshooting the issues and performance tuning of **JBoss** Application Server and **ApacheTomcat**.
* Validated the built **RESTAPI** in the browser using **Postman** and **SwaggerAPI**.
* Used **Java17** features like **stream** and **Lambda** expressions.
* Maintained Interface compatibility and concurrency in the project using **Java17** new features like default, static methods and Concurrency **API**.
* Utilized **Java17** Method References to streamline method calls by name and implemented functional interfaces for cleaner, more efficient code.
* Integrated **Jenkins** with version control systems like **Git** to trigger automated builds on code commits, streamlining the development workflow and minimizing manual intervention.
* Automated testing within **Jenkins** using tools like **JUnit**, **Selenium,** and **Cucumber**, ensuring consistent quality and functionality across releases.
* Secured the **API's** by implementing Oauth2 token-based authentication scheme using **SpringSecurity**.
* Designed and developed **DAOlayer** with Hibernate standards, to access data from **Oracle**.
* Implemented a distributed messaging queue to integrate with **Cassandra** using **ApacheKafka** and **Zookeeper**.
* Created **JUnit** test cases for numerous services to be tested with test data using the **Mockito** framework. Used the **Azure SDK** to connect with Azure services for bulk email processing.

**Environment**: Azure Services, Azure SDK ,Spring (Spring Boot, Spring MVC, Spring IOC, Spring AOP, Spring Actuator), Hibernate,GraphQL JUnit, GIT, Maven, Docker, Kubernetes, ELK, Kinesis, CloudWatch, Apache Storm, Apache Kafka, PostgreSQL, Oracle, Jenkins, SonarQube, Swagger UI, Zipkin, React.js.

**Project: Insurance claim Application Duration: Jul 17 to Apr 19**

**Client: Assurant Health Services, Miami, FL**

**Role: Java Full Stack Developer**

Assurant Health Services is a prominent provider of health insurance and related services in the U.S. The company offers a range of health plans and solutions designed to meet the needs of individuals and families. Assurant Health Services focuses on delivering comprehensive coverage, innovative health solutions, and exceptional customer service to enhance the well-being of its clients.

**Responsibilities**:

* Actively implemented Agile and Scrum methodologies, participated in technical meetings, requirements gathering, analysis, planning, effort estimations, development, and testing.
* Followed the Agile methodology and practiced Test Driven Development, creating design documents from functional specifications.
* Expertise in core **Java** and **J2EE** technologies, including **JSP, Servlets, Spring, Hibernate, JavaBeans, JDBC, XML,** and **Web Services.**
* Utilized **PostgreSQL** for querying **PL/SQL** statements to store and retrieve data from the database using **JDBC**.
* Worked with the **RXJS** Compatibility package to ensure backward compatibility with **RxJS** versions prior to **Angular4/2JS 8**.
* Designed complex forms with **Angular** Reactive Forms, implementing custom validation rules, dynamic form controls, and error handling to improve user input accuracy.
* Experienced with **Agile** project management tools like Azure Boards for agile planning, tracking, and management.
* Extensively worked with **Java8, microservices, Spring Boot**, and **PivotalCloudFoundry** (PCF) **cloudarchitecture**.
* Maintained and expanded **AWS** infrastructure, using **AWSEC2**, **CloudWatch** for event triggering, **S3** for document management, and **IAM** for access management.
* Utilized **S3** Intelligent-Tiering or lifecycle policies to automatically move objects between storage classes based on access patterns, reducing storage costs.
* Configured management tools like Ansible or Chef to automate **EC2** instance setup, configuration, and updates.
* Proficient in using **Splunk** to identify application failures and errors.
* Organize shared code, dependencies, and libraries into **Lambda** Layers for efficient reuse across multiple functions.
* Developed live chat escalation functionality to redirect users during outages, viewing 13 million logs using **Splunk**.
* Worked on **RESTful** web services for backend services and used **DynamoDB** (NoSQL) for database services.
* Used **Maven** for building and deploying applications.
* Developed **RESTAPIs** that produce and consume web services from other **APIs** and used **Hibernate** and **SpringJPA** to persist data into databases.
* Resolved callback hells in **Node**.**js** by using Promises and **ES6** Generators, resulting in more efficient and unchained code.

**Environment**: Java 1.8, Spring 2.5, NodeJS Hibernate, Spring JPA, Apache Camel, Java Web Services (REST, JAX-WS), EJB 3.0, JERSEY, jQuery, Spring Boot, JavaScript, Bootstrap, LESS, Web services, AWS, SASS, My Eclipse 10, PostgreSQL, Tomcat 8, Splunk, GraphQL, Java Beans, Maven, SQL, Log4j, Confluence, UNIX Shell Script.

**Project**: **Customer Processing System/ProfitMax Team Duration: Jul 14 to Jun 17**

**Client: Pepsi Beverage Company (PBC), Somers, NY**

**Role: Java Developer**

Pepsi Beverage Company (PBC) is a major player in the global beverage industry, offering a diverse portfolio of carbonated and non-carbonated drinks. Known for its flagship Pepsi brand, PBC also includes other popular brands like Mountain Dew and Tropicana. The company focuses on innovation and sustainability to deliver high-quality beverages and meet consumer preferences worldwide.

**Responsibilities**:

* Utilized **Java** servlets to process **HTTP** requests and responses, embedding essential business logic for web applications.
* Leveraged the **SpringMVC** framework to design and develop scalable web applications, following the Model-View-Controller (MVC) architecture for enhanced modularity and maintainability.
* Seamlessly integrated servlets within the **SpringMVC** framework to handle web requests and responses efficiently.
* Developed **RESTfulAPIs** using servlets and Spring MVC controllers, ensuring smooth communication between client and server components.
* Generated dynamic web content and interactive user interfaces using **JSP** (Java Server Pages) alongside servlets.
* Utilized **GitLab** to initialize and manage a commons project for a suite of applications.
* Implemented robust validation techniques in **Servlets** and Spring MVC controllers to uphold data integrity and bolster application security.
* Managed user sessions with **HTTP** Session, maintaining user state and session attributes across multiple **HTTP** requests.
* Enhanced application security by deploying servlet filters to intercept and preprocess incoming **HTTP** requests, enabling centralized request management.
* Deployed and managed **servlet-basedweb applications** using **Java Servlet** Containers such as **ApacheTomcat**.
* Configured and deployed applications on **Tomcat** servers, ensuring proper setup and optimal performance in a **Linuxenvironment**, leveraging expertise in server configuration and deployment.

**Environment**: JDK, JSP, java Servlet, Maven Build Tool, and Spring MVC, Tomcat, HTTP, Gitlab.

**EDUCATION**:

* Master of Computer Science in Youngstown State University , Ohio
* Bachelor’s in computer science in Saveetha University, Tamil Nadu, INDIA.