**Sathvik Rangini**

**Current Location: Plano, TX**

**Proffesional Summary :**

* Experienced **Java Backend Engineer** with over 8 years of proven expertise in building and deploying scalable, cloud-native web applications using **Java (Java 17/11/8), Spring Boot**, and **microservices architecture**.
* Strong hands-on experience with modern **DevOps and GitOps** practices including **CI/CD** pipelines using **GitHub Actions, Jenkins, JFrog, Sonar, and CodeQL**.
* Adept in managing containerized applications with **Docker and Kubernetes**, and **automating deployments** via **Helm and ArgoCD**.
* Well-versed in designing and tuning high-throughput **Redis** **clusters** and proficient in integrating **Kafka** for asynchronous messaging and event-driven processing.
* Skilled in **REST API development, Spring Webflux**, and performance testing using **JUnit, Mockito, and Rest** **Assured**.
* Deep cloud expertise, including deployment on **AWS** and **Azure platforms**, with experience in **AKS**, **Redis PaaS**, **Cosmos DB**, and secure resource access **via Key Vault**.
* Demonstrated ability to work in **Agile/Scrum environments**, with excellent communication skills and a strong understanding of modern **software architecture patterns**.
* A results-driven developer capable of leading **backend services** from concept to production, with robust **troubleshooting, deployment automation**, and observability practices.

**Summary:**

* IT professional with around 7 years of strong software experience in designing using Java & J2EE Technologies, developing, and deploying of web-based strong developing and hands-on experience in J2EE technologies such as JSP, Servlets, Hibernate, JDBC, Web Services (SOAP, REST).
* Extensive experience of designing and developing software applications with the EJB, Java, JSP, Servlets, Java Beans, JNDI, AJAX, JMS, ORM, JNDI, Web Services (SOAP, REST), JDBC, JAXP, RMI, XML, JavaScript, J Query, CSS3, JSON.
* Experienced in deploying and managing applications on Kubernetes using Helm, with expertise in creating scalable and automated Helm charts.
* Experience with various Software development Methodologies like SDLC, Object Oriented Analysis and Design (OOAD), Agile Software Development. Experience in application development and deployment using servers such as BEA WebLogic 9.1, IBM WebSphere 6.0, Apache Tomcat 5.5, JBOSS. O Strong understanding of database language SQL, PL/SQL Expertise in programming J2EE, (EJB, Servlets, JSP), PHP, XML/XSLT, Struts 1.0, Struts 2.0, Java Beans, Spring MVC.
* Proficient in optimizing and tuning Redis for performance and high availability, and skilled in integrating Logback with monitoring tools for effective logging and diagnostics.
* Experience in leveraging a robust proficiency in Java 8/ Java 11/ Java 17, J2EE, and utilizing frameworks like Spring Boot, Spring MVC, Spring IOC, Spring Security, and Hibernate for robust backend solutions.
* Experienced at leveraging AWS services (EC2, Lambda, S3, RDS, VPC, IAM, EMR, Code Deploy, Code Pipeline, CloudFormation, CloudWatch, CloudFront) to architect and deploy scalable, secure, and cost-effective cloud solutions.
* Adept at troubleshooting distributed systems, collaborating with DevOps for containerization, and ensuring smooth CI/CD workflows through GitOps practices.
* Experience in Producing and consuming Web Services Technologies like Restful (JAX-RS), SOAP (JAX-WS), JAX-RPC and JAXR (Java API for XML Registries).
* Leveraged Angular's component-based architecture and robust routing to architect and develop dynamic web applications seamlessly integrated with Java backend services.
* Experienced with hands on development in various spring components like Spring MVC, AOP, Spring IOC, Spring JDBC, Spring JPA, Spring Securities and Spring Batch, Spring Boot, Spring Microservices, and Swagger APIs.
* Skilled in utilizing Python for scripting, automation, and data analysis tasks, enhancing productivity and efficiency across diverse projects.
* Utilizing Postman for efficient API development, testing, and documentation, ensuring seamless integration and delivery of high-quality software solutions.
* Proficient in Java 8 Designing Patterns including singleton, Factory, Model View Controller (MVC) and Data Access Object (DAO) experience in a quick paced Agile Developing Environment including (TDD) Test Drive Development and Scrum.
* Responsible for planning Presentation level (web pages) using the concepts like HTML5, XML, CSS3, JavaScript and to some extent jQuery using AJAX.
* Experience in Python Open Stack API'S and Scaling up projects using python tools like multithreading, celery using Spring Core Annotations for Dependency Injection Spring MVC for REST API s and Spring Boot for microservices.
* Experienced DevOps & Backend Engineer with hands-on expertise in implementing GitOps-based CI/CD pipelines using ArgoCD for automated Kubernetes deployments.
* Skilled in developing and deploying Spring Boot microservices for healthcare data processing, seamlessly delivering them into Kubernetes clusters managed through ArgoCD.
* Substantial experience in developing J2EE based Web Services to expose useful functionality to web users through SOAP, describing them using WSDL, registering them using UDDI for easy availability to potential users and consuming using Axis2 and JAX-WS.
* Proficient in integrating ArgoCD with Helm and Kustomize to enable robust version management, audit trails, and rollbacks.
* Experience in developing J2EE components on Application Servers and Web servers like Open Shift, Web Sphere, Web Logic and Apache Tomcat.
* Experience and expertise in GCP environment in particular Google Big Query, Google Pub/sub, Google Spanner, Dataflow, Compute Engine, Google Storage.
* Strong knowledge of Cloud application security models, protocols and tools like AWS IAM, AWS KMS policy, Microsoft Azure AD, Google Cloud the services utilizing the Pivotal Cloud Foundry (PCF) as a platform as a service for Restful services.
* Having good knowledge on different databases like Postgre SQL, MySQL, DB2, Oracle 13c/11g, Microsoft SQL Server, NoSQL DB (Raven DB, Mongo DB and Cassandra, Couch DB, Redis.
* Extensive experience in microservices cloud architecture in AWS (EC2, S3, EBS, Cloud watch, load Balancer) in developing user interfaces with Angular10/11/12, HTML5, CSS3, JSTL and Custom Tag Libraries.
* Expertise in Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses).
* Technology leadership for the direction of the Web-based application using Spring framework, MVC pattern, and Web Sphere Server integrating to a proprietary framework.
* Sound Knowledge in RDBMS, SQL and NOSQL databases (Mongo DB) and Open Sources (Apache Couch DB) and the Storage Systems (Hadoop Distributing File System (HDFS)
* Working on Deployment Automation of all microservices to pull image from Private Docker registry and deploy to Kubernetes Cluster.

**Skills:**

* **Languages**: Java 17/11/8, J2EE, C, C++,SQL, Python, PL/SQL, UML,
* **Web/Application Servers**: Tomcat 7.x/6.x/5.x, WebLogic10.3/9.2/8.1/7.0, IBM WebSphere 8.x/7.x/6. x.
* **Technologies**: HTML5, XHTML, JavaScript, CSS3, XML, XSD, XSL/XSLT, AJAX, Node JS, React JS, Redux, Thunk, SAGA, jQuery, JSON, Bootstrap, Angular10/11/12, Angular JS
* **Tools & Framework**: Spring4/5, Spring MVC, Spring Boot, Spring batch, Spring Security, Spring AOP, Struts, JSF, Log4J, Jasper reports
* **Web Services**: SOAP, REST, REST API, WSDL
* **Database**: Oracle, Mongo DB, No SQL, MySQL server
* **Development Tools**: Eclipse, My Eclipse, Spring Tool Suite STS
* **J2EE Technologies**: Servlets, Struts, EJB 2.0, JSF, JDBC, JSTL, JNDI, JMS, RMI, Java Bean, JTA.
* **AWS**: EC2, RDS, S3, ELB, EBS, SVN
* **Built Tools**: JUnit, Soap UI, ANT, MAVEN, Gradle, Putty, CI/CD, PCF, Google cloud, Rational Clear Quest, Azure, Mockito, Fitness, Kubernetes, Load UI, Groovy Spock, Docker, Jenkins
* **OS & Environment**: Windows, Linux, UNIX
* **Design Patterns:** MVC, Front Controller, Singleton, Business Delegate and DAO patterns

**Education:**

Master's Degree, Computer Science - The University Of Texas at Arlington

**Professional Experience:**

**CVS Health, Providence, RI July 2023 – Till date**

**Java Full Stack Developer**

**Project details:** CVS Health is a company that provides a wide range of health-related services, products, and solutions. Their offerings span prescription medications, consumer health products, nutrition supplements, retail pharmacy services, in-store health clinics, home health care items, and health insurance options.

**Responsibilities:**

* Implementing Core Java concepts like Multithreading, Concurrency, Exception Handling and Collections whenever necessary.
* Managed application deployment on Kubernetes clusters using Helm, creating and maintaining Helm charts for scalable, repeatable, and automated deployments.
* Involved in all phases of the Software Development Life Cycle (SDLC) using Agile Scrum methodology, delivering high-quality software solutions.
* Implemented GitOps-based CI/CD pipelines using ArgoCD to automate Kubernetes deployments across multiple environments.
* Integrated ArgoCD with Helm and Kustomize to manage and promote application versions with full audit and rollback capabilities.
* Integrated Logback with external monitoring tools to track application health, diagnose runtime issues, and ensure compliance with production logging standards.
* Developed Single Page Applications (SPAs) with ReactJS, utilizing JavaScript, HTML5, CSS3, and Bootstrap for responsive design.
* Monitored and tuned Redis instances for high availability and low latency using appropriate eviction policies and memory management strategies.
* Employed HTML5 for content rendering and CSS3 for styling, leveraging Bootstrap for rapid UI development.
* Utilized Java 17 to enhance application development, implementing sealed classes for improved security and modularity.
* Created RESTful web services using Service-Oriented Architecture (SOA) principles, integrating them with React for data consumption.
* Developed high-performance, SEO-friendly web applications using Next.js with React JS for key consumer-facing healthcare portals.
* Implemented server-side rendering (SSR) and static site generation (SSG) in Next.js to improve initial load times and search engine visibility.
* Used Spring Framework in the application, which is based on MVC design pattern. Developed Action classes and Form beans and configured spring-config.xml.
* Debugged and resolved multithreading issues, such as race conditions and deadlocks, to ensure the reliability and stability of the application.
* Enhanced API reliability and observability through middleware-level logging and monitoring using tools like New Relic, Grafana, and Graphite API.
* Utilized API routes within Next.js to build lightweight backend endpoints for handling pharmacy data requests and form submissions.
* Working on DAO’s to pull data from source Databases and converting into JSON formats, publishing into Kafka and also Hibernate, object/relational-mapping (ORM) solution, technique of mapping data representation from Spring MVC model to Oracle Relational data model with SQL-based schema, Transactions, Interceptors.
* Developing data analytic tools using Python Pandas, and visualizations using Matplotlib and Bokeh implementing web services (WSDL) and effectively working with SOAP and XML, and XSLT.
* Creating REST API based web services by establishing links using HATEOAS fromspring-based application working on sending application metrics and writing NRQL queries to creating dashboard views in New Relic.
* Monitoring the system behaviour and usage using New Relic APM and creating alerts with email or SNOW ticket incidents using J2EE designing patterns like Adapter, Service locator, Session facade, Singleton, Factory and DAO.
* Involving in improving code coverage with JUnit test cases to methods or Micro Services written actively involving in code enhancements pushing into Git repository and working to fix the review comments.
* Using Spring Batch framework and Spring Boot in developing and scheduling Cron Job in MC batch application modules developing application using Angular JS and Node JS connecting to Oracle on the backend.
* Inspecting logs and building automation process through Jenkins for deploying the code changing of into Pivotal cloud foundry using ultra-edit tool and Postman for validating NCPDP string or pharmacy prescription request and response from the backend Adjudication systems.
* Utilizing AWS Lambda platform to uploading data into AWS S3 buckets and to trigger other Lambda functions developing drag and drop document editing using React JS and Redux.
* Making sure the system passes all tests in the QA environment also and functionality of code is meant accordingly to the requirement.
* Working in areas of Jenkins jobs creating and configuration for a job to run as scheduling Maven for local code building and Jenkins continuous deploying (CI/CD).
* Designing & developing logical & physical data model using data warehouse methodologies worked on Amazon web services (AWS) specifically Amazon Lambda for developing and deploying application.
* Integrated Next.js with CI/CD pipelines (Jenkins) and deployed builds to AWS and Pivotal Cloud Foundry (PCF) for production use.
* Designing dimensional modeling using SSAS packages for End-User and created Hierarchies in dimensional model for faster performance.
* Developing Microservices based on Restful web service using Akka Actors and Akka-Http framework in Scala which handles high concurrency and high volume of traffic
* Experience in Microservices development using spring5.x and deployment in Pivotal Cloud Foundry (PCF) created deployment models for cloud foundry.
* Designed and developed distributed microservices using Spring Boot, leveraging Apache Kafka as middleware to enable real-time, event-driven communication across services.
* Integrated enterprise systems using Oracle Fusion Middleware and WebLogic, facilitating secure, scalable deployment and seamless service orchestration for trading and healthcare applications.
* Utilized Apigee as an API gateway middleware to manage, secure, and monitor traffic between front-end applications and backend RESTful services, enabling rate-limiting, token validation, and analytics.
* Ensured fault-tolerant, high-throughput messaging by implementing Kafka-based middleware pipelines for transaction processing and cross-service communication.
* Involving a Queuing system that takes in files from various sources formats them and uploads them to an s3 bucket using AWS Lambda and SQS
* Using Babel as a trans piler, Webpack as the module bundler in Developed user interface by using the React JS, Flux/Redux for SPA development. .js and Redux.
* Experience in providing highly available and fault tolerant applications utilizing orchestration technologies like Kubernetes and Apache Mesos on Google Cloud Platform.
* Involving in coding used Struts, Spring and Hibernate, REST/SOAP web services, JSF frame works designed and developed Micro Services business components using Spring Boot.
* Built open source, Message Broker Apache Kafka and worked extensively to do a real-time streaming of Data Records between applications.
* Creating and exposed Restful APIs using Spring REST and Spring boot designed specific databases for collection, tracking, and reporting of administrative clinical data using SQL Server Management Studio.
* Optimized inter-service communication by creating RESTful middleware APIs that abstracted business logic and enhanced scalability and maintainability.
* Implemented token-based authentication and authorization using Spring Security and middleware-level validation mechanisms to safeguard internal APIs.
* Executing SQL queries to retrieve data from databases for analysis extensively used ETL Data Stage to load from different source systems and load into the target data warehouse.
* Working on Procedure API and Consumer API to publish Stream of records to Kafka Topics and to subscribe one or More Topics, Respectively
* Involving in the Development of Spring Framework Controller for request, response paradigm by Spring Controllers using Spring MVC.

**Environment:** Java 17, JDK (Version 11), J2EE, Python, ReactJS, Spring Data JPA, Typescript, Spring Boot, Rational Rose, Kafka, Hibernate, AWS, Terraform, AJAX, JSON, XML, Postman, SoapUI, Rabbit MQ, IIB, ODM, WAS, WTX, MQ, MongoDB, Jest, Node JS, Microservices, RDS, IAM, Docker, Kubernetes, Messaging Queue, Cassandra DB.

**Sentara Healthcare, Hampton Roads, VA Jan 2020 – June 2023**

**Sr Java/J2EE Developer**

**Project Details:** Sentara Health is a not-for-profit healthcare organization serving Virginia, northeastern North Carolina and Florida. It is based in Hampton Roads, Virginia and three assisted living facilities across the two states. Sentara Health operates its Sentara Health.

**Responsibilities:**

* Involved in the analysis, design, and development phases of the SDLC using Agile (SCRUM) development methodology to deliver regular updates tothe business team and project managers.
* Developed Microservices using Spring Boot and Spring Batch, that create, update, delete and get the assignment information from backend.
* Developed and deployed microservices for healthcare data processing using Spring Boot and integrated them into Kubernetes clusters managed via ArgoCD for seamless delivery.
* Optimized Redis usage by tuning memory policies and implementing efficient caching strategies to reduce backend load and improve application response times.
* Developed Rest service for authentication using Spring Boot with embedded Tomcat server. Used spring boot for single sign on page application to access more quickly.
* Designed and managed MongoDB collections, including the creation and maintenance of indexes, to optimize data retrieval performance.
* Troubleshot and resolved issues in distributed environments, analyzing Helm releases, reviewing logs via Logback, and debugging Redis latency or persistence problems.
* Designed and integrated middleware components to enable secure, asynchronous communication between distributed services using Apache Kafka as the backbone messaging layer.
* Deployed backend services to EC2 instances utilizing Docker containers or AWS Elastic Beanstalk, facilitating seamless deployment and management.
* Implement Azure DevOps for continuous integration and continuous delivery (CI/CD) pipelines to streamline software development and deployment processes.
* Develop the batch jobs for loading the BETA side trades into Broadridge using Perl script, Unix shell script and Autosys
* Strong experience with Mongo DB development (reports, schema design, map reduce functions) and migrations from SQL relational databases to NoSQL databases like Mongo
* Upgrading the servers like Tomcat from 8.5 to Tomcat 9 in the project before migration Setup the required setup in the Local, Dev, Test and Prod environment
* Skilled in leading frameworks as React.js to build high-quality, scalable and reusable components and Front-end solution.
* Migrated application logging framework from Log4j to Log back followed Agile methodology in the Scrum Cycle model and worked on JIRA to access the user stories expertise in Linux Commands.
* Used J2EE design patterns like Adapter, Service locator, Session facade, Singleton, Factory and DAO used Executor Service framework to implement multithreading in programming to improve overall performance.
* Used Java Lambda expressions along with Streams for creating internal iteration and performing chain operations such as Filter, Map, Collect on a collection.
* Developed classes using Core Java/Executor Service (multithreading, concurrency, memory management) consumed REST Web Services for getting the credit card information from third party application using EME.
* Used the fundamentals of Java features like parallel streams and filters through along with multithreading using did smoke tests, which are functional unit and integration tests on all major system components.
* Converted a monolithic app to microservices architecture using spring4.x using 12 factor app methodology. Deployed, Scaled, Configured, wrote manifest file for various Microservices.
* Used Angular11 in creating animations based on CSS classes for a new requirement surfaced for the client developed the web services classes by using Service Oriented Architecture SOAP, WSDL, and UDDI.
* Developed REST API's using Spring MVC and Spring Boot, hosted all microservices used Spring Boot based services to interact through a combination of REST and Apache Kafka message brokers. Designed and implemented the DAO layer using spring, Hibernate.
* Used Java 7 features like Streams and Lambda Exp for API Development and performed unit testing using frameworks with Node JS framework including authoring complex directives, services, controllers and filters.
* Developed Restful Web services for other systems to interact with our system and secured the service with Spring Security OAuth 2.0 added WS-Security using XWSS to secure the Web services.
* Used AngularJS framework where data from backend is stored in model and populated it to UI developed unit and integration tests for existing microservices using J Unit, Mockito and Docker environments.
* Implemented Spring Circuit breaker pattern, integrated Hysteria dashboard to monitor Spring Microservices used Git as Version Control System for the application.

**Environment:** Java , J2EE, JSP, Spring 4.0, Spring MVC, Spring Boot, Micro services, Angular, AngularJS, SOAP, REST, REST API, JavaScript, Node JS, Google Cloud, J Query, Hibernate, Mongo DB, Docker, Kubernetes, React JS, Oracle 10G, XML, WebLogic9, Eclipse, NoSQL, Apache Tomcat 9.x, Maven, Jenkins, Bootstrap, JSF, J unit.

**CME Group, Chicago, IL Oct 2017 – Dec 2019**

**Java Developer**

**Project Details:** CME Group, originally known as the Chicago Mercantile Exchange, is one of the world's leading and most diverse derivatives marketplaces. It provides trading facilities for a wide array of products, including futures and options based on interest rates, equity indexes, foreign exchange, energy, agricultural commodities, metals, weather, and real estate.

**Responsibilities:**

* Actively involved in Analysis, Design, Development, System Testing and User Acceptance Testing successfully followed agile methodology in the Scrum Cycle model.
* Utilized Fargate task definitions to define the application and container specifications, including resource limits, environment variables, and image versions.
* Collaborated with DevOps teams to containerize applications and configure CI/CD pipelines, ensuring seamless integration of Helm-based deployments into GitOps workflows.
* Scaled Microservices, distributed systems and server less applications using Simple Queue Service (SQS).
* Developed Java applications and web services using Eclipse IDE.
* Developed and maintained enterprise-level applications using Oracle technologies such as Oracle Database, Oracle WebLogic, and Oracle Fusion Middleware.
* Deployed applications in Docker containers and facilitated runtime accessibility using Cloud Foundry and cloud services like AWS.
* Responsible for consuming the REST services, getting JSON response, and parsing it, to get the required information.
* Collaborated with front-end developers to integrate Scala.js for building reactive and scalable user interfaces.
* Used WebLogic Server for optimizing performance, ensuring the reliability and responsiveness of Java applications.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Successfully handled all Apigee and backend related errors in the API proxies using JavaScript excellent knowledge on CQL (Cassandra Query Language), for retrieving the data present in Cassandra cluster by running queries in CQL.
* Involved in designing various stages of migrating data from RDBMS to Cassandra created REST API documentation using Swagger and YAML.
* Applied middleware logging and tracing practices using SLF4J, Log4J, and JBoss BRMS, improving auditability and system debugging.
* Used Eclipse as JAVA IDE tool for creating various J2EE artifacts like Servlets, JSP's and XML learn and move quickly with excellent technical execution and the ability to build out complex API from scratch
* Developed UI using Bootstrap, Angular JS along with JSON and communications with backend using REST with Spring MVC framework
* Integrated Spring MVC with Hibernate 4.x using Hibernate Template to perform CRUD operations against database used Hibernate, object/relational-mapping (ORM) solution, technique of mapping data representation from MVC model to Oracle Relational data model with SQL-based schema.
* Designed middleware integration workflows to support the migration of legacy data pipelines to Apache Kafka, improving system responsiveness and reliability.
* Used Hibernate Transaction Management, Hibernate Batch Transactions, and Hibernate cache concepts created tables and worked on SQL, PL/SQL to write Stored Procedures functions, packages for Inserts, updates in the database.
* Worked on Entity beans in the persistence layer interaction with Oracle DB have Knowledge on Apache Spark with Cassandra.

**Environment**: Java ,J2EE, Spring MVC, Spring Boot, REST, REST API, Jira, Hibernate, Angular JS, jQuery, JSON, AJAX, Micro Services, XML, JavaScript, Oracle 12c, Git, JUnit, HTML5.