**Krishna Yedubati**

**Sr Full Stack Java Developer**[**mk@gforgetech.com**](mailto:mk@gforgetech.com) **9089927732**

**SUMMARY**

* **Senior Full Stack Java Developer** with **11+ years** of experience in designing, developing and deploying scalable, distributed web applications using **Java, Spring Boot** and **Microservices** architecture.
* Strong expertise in **Java, Spring Boot**, and **React/Redux** for backend and frontend development.
* Hands-on experience working with **AWS services** like **RDS, Lambda, SNS, and SQS**.
* Proficient in **Terraform** for infrastructure automation and **Docker** for containerization.
* Built and deployed CI/CD pipelines ensuring smooth and automated software delivery.
* Integrated **Python-based AWS Lambda** functions for data processing and automation.
* Developed **RESTful APIs** with a focus on performance, scalability, and clean architecture.
* Worked in **Agile teams**, collaborating with cross-functional members to deliver quality solutions.
* Expertise in **Core Java** **(Java 8/11/17/21),** including **OOP, Multithreading**, Collections Framework, Exception Handling and modern Java features like **Lambda** Expressions, **Streams** and **Functional Programming**.
* Expertise in leveraging **.NET** and **C#** to build robust, **enterprise-scale** applications, enabling multi-platform integration and enhancing interoperability with legacy systems in financial environments.
* Proficient in **microservices** development using **Spring Boot**, **Spring Security, Spring AOP** and **Spring Batch**, implementing patterns like **Saga, Circuit Breaker** and **Event Sourcing** for resilient distributed systems.
* Hands-on experience with event-driven architecture, utilizing **Apache** **Kafka** and **Kafka Streams** for real-time data processing and asynchronous communication.
* Strong expertise in **frontend** development, working with **React.js** (Hooks, Redux), **Angular** **(8/14/16/17), Bootstrap, HTML5, CSS3** and **Typescript** to create intuitive and dynamic user interfaces.
* Extensive experience in building and optimizing **RESTful APIs,** implementing **OAuth2, JWT** and **API Gateway** for secure and efficient communication between services.
* Database management experience with **PostgreSQL**, **Oracle 12c/19c, MySQL** and **NoSQL** databases like **MongoDB** and **Redis**, optimizing query performance and data storage.
* Skilled in cloud-native application deployment on **AWS (EC2, S3, RDS, Lambda, EKS, CloudWatch)** and **Azure (Blob Storage, AKS, App Services),** ensuring high availability and scalability.
* Hands-on experience with containerization and orchestration, using **Docker** and **Kubernetes** **(EKS/AKS/OpenShift)** to manage and scale distributed applications.
* Proficient in **CI/CD** automation, leveraging **Jenkins, Azure DevOps** and **GitHub** Actions to streamline build, test and deployment workflows.
* Developed scalable microservices using Java, Spring Boot, and Cassandra as the primary NoSQL data store.
* Implemented the scheduling feature for quarterly and **ad-hoc report** generation using **Quartz Scheduler**, allowing compliance analysts to automate report submissions to regulatory authorities.
* Implemented batch processing workflows using **Spring Batch** and **Apache Spark,** optimizing the handling of large transactional datasets. Configured **JVM** settings for high-throughput, distributed systems.
* Experience in performance monitoring and logging, utilizing **Log4j2, ELK Stack (Elasticsearch, Logstash** and **Kibana), Splunk, Prometheus and Grafana** for proactive issue resolution.
* Strong testing experience, following **TDD** and **BDD** methodologies, using **JUnit 5, Mockito, Selenium, Postman** and **REST Assured** for **unit**, integration and **API** testing.
* Worked in **Agile / Scrum** development environments, actively participating in **Scrum** ceremonies, sprint planning and retrospective meetings to deliver high-quality project outcomes.
* Hands-on experience with tools like **JIRA** for project tracking, **Swagger** for **API** documentation and **Git** for version control, ensuring smooth collaboration and code management.
* Hands-on experience with **HL7 FHIR (FHIR 4.0.1)** standards and implementation guides **(DaVinci, CARIN, US Core)**, performing data mapping and developing **FHIR-based API** solutions.
* Proven ability to collaborate with cross-functional teams, including Business Analysts **(BAs), QA** teams and **DevOps** engineers, to align technical solutions with business objectives.
* Possess deep financial domain experience through work on **regulatory and compliance systems**, aligning technical solutions with finance business objectives.

**TECHNOLOGIES**

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| --- | --- |
| Programming Languages | Java (8, 11, 17, 21), Python, JavaScript, TypeScript, C#(.NET) |
| Scripting Languages | Shell Scripting, Bash |
| Web (Frontend) Tech | HTML5, CSS3, React.js, Angular (including Angular CLI), Bootstrap (3/4/5), Material-UI, Next.js, Workbox, Service Workers |
| Web (Backend) Tech | Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, J2EE, Node.js, Express.js, GraphQL |
| Messaging & Streaming | Apache Kafka, RabbitMQ, Kafka Streams, Apache Flink |
| Caching Tech | Redis, EhCache |
| RDBMS Database | PostgreSQL, Oracle 12c/19c, MySQL |
| NoSQL Database | MongoDB, DynamoDB, Azure Cosmos DB, Firebase(Realtime Database) |
| Big Data & Analytics | Apache Spark, Google BigQuery, Azure Synapse, Azure Data Factory, Azure Event Hub |
| Build Tools | Maven, Gradle |
| Version Control | Git, GitHub, Gitlab, Bitbucket, SVN |
| CI/CD Tools | Jenkins, GitHub Actions, Azure DevOps, Bamboo |
| DevOps Tools | Docker, Kubernetes(EKS, AKS, OpenShift), Terraform, AWS CloudFormation |
| Cloud Providers | AWS (EC2, S3, RDS, Lambda, CloudWatch), Azure (Blob Storage, Cosmos DB, App Services, VMs), Google Cloud Platform(GCP) |
| Logging & Monitoring | Log4j2, ELK Stack (Elasticsearch, Logstash, Kibana), Splunk, Prometheus, Grafana |
| Testing Tools | |  | | --- | |  |   JUnit (5), Mockito, Selenium, Jasmine, Karma, Cucumber, Postman |
| Healthcare & Standards | HL7 FHIR(FHIR 4.0.1), Azure Healthcare APIs, Adobe Experience Manager(AEM) |

**PROFESSIONAL EXPERIENCE:**

**First Citizen Bank | Boston, MA** **January 2022 - Present**

**Sr. Full Stack Java Developer**

**Regulatory Compliance**

* Participated in the design, development and deployment of the **Regulatory Reporting and Compliance System (RRCS)** to automate regulatory reporting workflows for compliance with **FINRA** and **SEC** requirements.
* Designed and developed cloud-native banking applications using AWS services like **EC2, S3, RDS** and **Lambda** and Implemented secure authentication with **AWS Cognito** and **IAM** roles for banking applications.
* Explored a hybrid cloud strategy by integrating **Google Cloud Pub/Sub** alongside AWS services, enabling additional event streaming capabilities for real-time regulatory data ingestion.
* Built microservices using **Java 17** and **Spring Boot** to handle core functionalities like report generation, scheduling, and secure submission to regulatory authorities.
* Integrated the system with external data sources such as trading platforms and risk management systems using **Apache Kafka** for real-time data ingestion and processing.
* Developed Spring Boot microservices for order creation, payment, and shipment tracking.
* Integrated with AWS RDS for backend data storage and used Terraform for infrastructure provisioning.
* Implemented AWS SQS for handling asynchronous events and SNS for sending real-time notifications.
* Deployed Java services as Docker containers using Jenkins CI/CD pipelines.
* Built and connected REST APIs with a React/Redux frontend for live order status updates.
* Triggered background tasks using AWS Lambda for invoice generation and stock updates.
* Worked in Agile environment, participating in stand-ups, sprint planning, and design discussions.
* Designed schema models in Cassandra using denormalized tables and composite partition keys for performance optimization.
* Developed **RESTful APIs** and **GraphQL APIs** to facilitate seamless communication between microservices and external systems, ensuring reliable data exchange and processing.
* Used **React.js** and **Material-UI** to create user-friendly dashboards for compliance analysts to monitor report statuses, manage schedules and view audit trails.
* Worked on real-time transaction processing using **AWS Kinesis** and **Apache Flink** for fraud detection.
* Leveraged **Google BigQuery** for advanced analytics on compliance data, which supported the generation of ad-hoc reports and deep-dive audits in conjunction with existing **AWS data pipelines**.
* Handled secure file submissions to FINRA’s electronic filing system using **HTTPS APIs**, **JWT-based authentication** and **AES-256 encryption** for data security.
* Enhanced security by implementing **OAuth2-based access control** for **API endpoints**.
* Developed audit trail functionality to log all user actions and system events in **Elasticsearch**, providing complete traceability for compliance audits.
* Developed dynamic, responsive user interfaces using **Angular**, leveraging **Angular Material** and **Bootstrap** for a modern, consistent design.
* Implemented server-side rendering (**SSR**) with **Next.js** to improve **SEO** and performance.
* Implemented **Angular** features such as **two-way data binding, lazy loading**, and **reactive forms** to optimize the compliance dashboard’s performance and usability.
* Integrated Angular-based components with **RESTful APIs** to ensure real-time data updates and an intuitive user experience for compliance analysts.
* Optimized web applications using **react. Memo**, **use Callback** and use **Memo** to enhance performance.
* Utilized **Hibernate** with **Spring JPA** for database interactions and implemented SQL queries and stored procedures to manage complex data operations in an **Oracle Database**.
* Designed and optimized **MongoDB collections** to handle high-volume data ingestion from external trading platforms and risk management systems.
* Implemented indexing and query optimization strategies in **MongoDB**, significantly improving performance for data-intensive operations within the compliance system.
* Built cloud-native applications with **Spring Cloud** components like Config, Eureka and Gateway.
* Worked on infrastructure as code (**IaC**)using **Terraform** and **AWS** Cloud Formationto provision banking environments.
* Evaluated and integrated **.NET/C#–based modules** with existing **Java microservices** to enhance interoperability with legacy financial systems, streamlining regulatory reporting workflows.
* Worked with Docker containers to package and deploy **microservices** and used **Kubernetes** for orchestrating containers across development, QA and production environments.
* Utilized **Google Kubernetes Engine (GKE)** in pilot deployments to compare container orchestration efficiencies, complementing our primary **AWS Kubernetes** environment.
* Integrated **React.js** with backend frameworks like **Spring Boot, Node.js,** and **Express.js.**
* Wrote unit and integration tests using **JUnit, Mockito** and **Spring Boot** Test and Documented APIs using **Spring REST Docs** and **OpenAPI.**
* Integrated **spring** applications with **Jenkins, GitHub** Actions and **GitLab CI/CD** and configured distributed tracing and monitoring using **Sleuth** and **Zipkin**.
* Ensured security and compliance with **AWS KMS, VPC, WAF** and **Shield** for banking regulations (**PCI-DSS, GDPR**).
* Supported the deployment of the **RRCS** application in a hybrid cloud environment, configuring **AWS EC2, S3** and **RDS** to store and process regulatory data.
* Contributed to all stages of the **software development lifecycle**—from analyzing user requirements and defining business objectives to **design, implementation, testing, and deployment**.
* Collaborated closely with business, product, and QA teams in a **Scrum/SAFE Agile environment**, ensuring application designs conform to business goals.
* Authored detailed technical design documentation and prepared deployment scripts and production deployment plans to support a high-volume, low-latency application.
* Wrote well-designed, testable code and developed comprehensive unit test cases (using **JUnit and Mockito**) to ensure code quality.
* Actively participated in code reviews, managed check-ins to the repository, and followed **Change & Release processes** to achieve smooth production deployments.

**Fresenius Medical Care | Chicago, IL Jan 2019 - Dec 2021**

**Sr. Full Stack Java Developer**

**Connected Health Platform**

* Developed a **Connected Health Platform** for remote patient monitoring, integrating dialysis machines, wearable’s (Apple Health, Fit bit) and manual data entry for real-time vitals collection.
* Designed & implemented **RESTful APIs** using **Spring Boot**, handling patient vitals ingestion, dialysis session tracking and AI-driven risk analysis.
* Built **microservices** for Vitals, Dialysis Sessions, **AI Risk Analysis** and Notifications, ensuring scalability, security (**OAuth 2.0, JWT**) and compliance **(HIPAA).**
* Integrated **MongoDB with Apache Kafka** for streaming real-time patient data, ensuring timely risk analysis and alert generation.
* Implemented caching and replication strategies in **MongoDB** to support high availability and fast access to critical patient data.
* Integrated **HL7 FHIR interfaces** using **Azure Healthcare APIs** to standardize patient data exchange; performed data mapping to **FHIR** resources following **US Core** and **CARIN guidelines.**
* Incorporated **Google Cloud Dataflow** to process and transform large-scale patient vitals data in real time, enhancing our predictive analytics capabilities for **AI-driven risk analysis.**
* Implemented **CI/CD pipelines** for **React** applications using **Jenkins, GitHub Actions** and **AWS Amplify.**
* Enhanced the patient monitoring interface by developing dynamic, data-driven UI components using **React.js with Hooks** and **Redux for state management**.
* Built a **full-stack dashboard** to display real-time company expenses and revenue data.
* Developed **Java REST APIs** to fetch and process financial data using **AWS SQS** queues.
* Provisioned cloud infrastructure using **Terraform** (RDS, Lambda, IAM roles).
* Integrated **Python-based AWS Lambda** functions for automated ETL and data syncing.
* Deployed services as **Docker containers** to **AWS ECS** for scalable and reliable performance.
* Designed a **React/Redux** UI for dynamic report generation and filtering.
* Set up **CloudWatch** for performance monitoring and implemented structured logging.
* Integrated Apache Cassandra with Spring Data for high-throughput, low-latency data access.
* Built Progressive **Web Apps** (PWA) with **React.js, Workbox** and Service Workers for offline support.
* Built **Progressive Web App (PWA)** features with **React.js** to enable offline support and improve the platform’s responsiveness and performance.
* Developed and deployed cloud-based healthcare applications on **Microsoft Azure**, ensuring compliance with **HIPAA** and **FHIR** standards and implemented microservices architecture using **Azure Kubernetes Service (AKS)** for scalable healthcare solutions.
* Developed a **Kafka**-based event-driven architecture, streaming **real-time** patient vitals for **AI risk prediction** and clinician alerts.
* Integrated **React components** with real-time **data streams** from **Apache Kafka**, enabling immediate visualization of patient vitals and risk predictions.
* Integrated **Google Cloud Pub/Sub** for reliable messaging and event streaming, enabling seamless data ingestion from various healthcare devices and wearables.
* Integrated third-party **APIs** (**Twilio** for **SMS alerts**, Firebase for push notifications) to enhance patient engagement and clinician response times.
* Implemented batch processing using **Spring Batch** & **Apache Spark,** enabling efficient handling of large-scale vitals data.
* Optimized **API** performance, reducing response times through caching **(Redis)** and database indexing and query optimizations in **PostgreSQL** & **Azure Cosmos DB.**
* Utilized **Google BigQuery** for rapid, scalable querying of historical patient data, contributing to more robust healthcare analytics and real-time decision support.
* Developed real-time data pipelines using **Azure Data Factory, Azure Synapse** and **Azure Event Hub** for medical analytics.
* Worked on **FHIR** and **HL7** data exchange using **Azure Healthcare APIs** for standardized patient data sharing.
* Developed dynamic and responsive web applicationsusing **React.js,** **JavaScript (ES6+)** and **TypeScript.**
* Designed and implemented role-based access control **(RBAC)** with **Spring Security,** ensuring data privacy and secure multi-user access.
* Configured **CI/CD pipelines** **(Jenkins, GitHub Actions, Docker** and **Kubernetes**) to automate deployment and improve release cycle efficiency.
* Leveraged **Python** to develop data preprocessing pipelines and perform statistical analysis on patient vitals, enhancing feature engineering for **AI-driven risk analysis**.
* Integrated **Python-based machine learning models** using libraries such as **scikit-learn** and **TensorFlow** to predict patient health deterioration, enabling proactive interventions and improved patient outcomes.
* Worked with cross-functional teams (**Data Science, AI/ML and DevOps**) to integrate predictive analytics models for early detection of patient health risks.
* Implemented test-driven development (**TDD**) with **JUnit, Mockito** and **Postman** for unit, integration and **API** **testing**, achieving high test coverage.

**Macy’s | Atlanta GA May 2015 – Dec 2018**

**Full Stack Java Developer**

**Macy’s Omni-Channel Commerce Platform**

* Contributed to all phases of the Software Development Life Cycle (**SDLC**) in an **agile** environment, collaborating closely with cross-functional teams and stakeholders.
* Developed and deployed scalable e-commerce applications using **AWS EC2, ECS (Fargate)** and **EKS** (**Kubernetes**) for high availability.
* Developed dynamic web applications using **Angular 5** and **6** with **Typescript** and **JavaScript**.
* Integrated **Angular 6** frontend with Java **Spring Boot REST APIs**, ensuring seamless data exchange using Http Client Module and secure authentication with **JWT** tokens.
* Piloted the integration of **.NET/C# components** to prototype cross-platform service interoperability, thereby enhancing transaction processing scalability and data security in high-volume commerce environments.
* Developed reusable **Angular 6** services to interact with backend **micro services,** optimizing **API** calls with **RxJS** Observables, **switch Map**, and error handling.
* Leveraged Angular’s advanced **routing** and **lazy loading** features to improve application performance, reducing initial load times during high-traffic periods.
* Implemented secure user authentication with **AWS Cognito** for customer login, multi-factor authentication (**MFA**) and social sign-ins.
* Optimized backend performance by enabling lazy loading in **Angular 6**, reducing initial load time and fetching backend data only when required.
* Integrated **Angular 6** with **Kafka** and message queues to handle asynchronous event-driven processing from the backend.
* Developed robust backend components using **Core Java**, implementing features with Exception Handling and Collection **APIs** for optimized performance.
* Designed and implemented the **MVC** architecture using **Spring MVC, Spring IOC** and **Spring Boot 2.5** ensuring clear separation of concerns and code maintainability.
* Designed a robust product catalog using **Amazon DynamoDB** and **RDS** for scalable product searches and optimized checkout and payment processing using **AWS Lambda, API Gateway** and **Amazon SQS** for event-driven order handling.
* Integrated third-party **UI libraries** like **Angular** Material, Bootstrap and **PrimeNG** for a modern UI experience and deployed Angular applications on **AWS S3, CloudFront** and **Apache Tomcat** servers.
* Contributed to prototyping customer-facing modules using **React.js with Redux** for enhanced state management.
* Integrated the **Adobe Experience Manager (AEM)** **Content Management System (CMS)** to manage digital assets and product content; streamlined content updates using **AWS DevOps pipelines (AWS CodeBuild, CodePipeline, CloudFormation)** to support continuous delivery and maintain high availability.
* Utilized **Spring Data JPA** for database access, creating repositories and implementing criteria queries for efficient data retrieval and manipulation.
* Designed and developed asynchronous microservices with **Spring Boot**, enabling modular development and deployment of business functionalities.
* Integrated **spring, Hibernate** and **JPA,** creating entity mappings and writing optimized **SQL** queries for Oracle databases.
* Implemented personalized recommendations using **Amazon** Personalize and **AWS Sage Maker** to enhance customer experience and deployed real-time analytics dashboards using **AWS Kinesis, Glue** and **Redshift** to track sales, user behavior and inventory.
* Worked with **Webpack** and **Angular CLI** to optimize builds and manage dependencies.
* Performed **unit testing** and end-to-end testing using **Jasmine, Karma** and **Protractor** for quality assurance.
* Implemented **PL/SQL scripts** to identify and resolve fallouts in the application, ensuring data integrity and smooth operations.
* Used **Maven** for build automation and dependency management, enabling consistent builds and reducing manual efforts.
* Managed source code versioning and collaborative development using **SVN** and **Git**.
* Participated in **Agile** ceremonies, including sprint planning, daily stand-ups and retrospectives, using **JIRA** for task management and tracking.

**State of Colorado | Denver, CO Oct 2013 – May 2015**

**Programmer Analyst**

**Integrated Public Services Platform (IPSP)**

* Developed state-level applications using **Java**, **JSP**, **Servlets** and the **Spring Framework**, implementing the **MVC architecture** for structured and maintainable code.
* Developed **APIs** with **Spring Boot** and hosted them on **AWS API Gateway** with **Lambda** integrations.
* Designed and consumed both **RESTful** and **SOAP** web services, enabling secure and efficient data sharing across multiple government departments.
* Created a proof-of-concept **.NET/C#** module to facilitate seamless integration between legacy systems and modern web services, improving data exchange efficiency and supporting real-time public service reporting.
* Wrote and optimized **complex SQL queries** and **stored procedures** for data retrieval, manipulation and reporting in **PostgreSQL** and **SQL Server**, ensuring reliable and high-performance database operations.
* Designed and implemented dynamic user interfaces with **JSP**, **HTML**, **CSS** and **JavaScript**, improving usability and accessibility.
* Deployed and configured applications on **Apache Tomcat** and **JBoss servers**, creating a stable and scalable production environment.
* Implemented security measures such as **role-based access control (RBAC)** and **data encryption**, protecting sensitive information and ensuring compliance with state security policies.

**Education**

Master of Science, Computer Science University of Missouri Kansas City 2012-2014

Bachelor of Tech., Electrical and Electronics Engg., V R Siddhartha Engineering College 2007-2011