**RaviKumarNallamalli**

+1 **940-239-2861**| nrk.ravikumar003@gmail.com |  [ravi-kumar-Nallamalli](https://www.linkedin.com/in/ravi-kumar-nallamalli-703139119/#sent/_blank) - LinkedIn

**SUMMARY**

10 years of experience in Building Web-based applications andassociatedtechnologycomponents.DistributedArchitectureApplicationsusingJavaandJ2EE. ExperienceinRequirementgathering,**Analysis,Design,Coding,Test-DrivenDevelopment,** andExpertiseinGOFdesignpatternsSingleton,**MVC,FrontController,and Businessdelegatepatterns.** Proficient in Amazon**Webservices(AWS**)componentslike**S3,SQS,SNS,DLQ,DynamoDB,Watch,Lambda,APIGateway,AWS Lambdas,andAWSCLI for** seamless deployments.

* Extensive development experience with S**pring Boot, Microservices, AWS -S3, SQS, Cloudwatch, Java/J2EE, Servlets, JSP, JAXB, REST, SOAP, Hibernate, JPA, AJAX, JSON, XML, HTML &JMS,Springflyway,SpringEventListener,SpringAuditing,SpringScheduler,MailAPI,Spring Validation,SpringJDBC,ActiveMQ,ApacheCassandra,Spring Data,Spring Security.**
* WorkedwithmultipleDB’slike**Oracle&MySQL,PostgreSQL**.
* Hands-ondevelopmentexperienceusingthe**SpringBoot/Microservices.**
* ExperienceinDevelopmentinteractivefrontendapplicationusing**AJAX,HTML5,CSS3,JavaScript,ReactJs.**
* Knowledge infrontendwith experience in building Web Applications using **ReactJS**fortheClientside.
* Expertise in using **React.js/Redux** to build User Interfaces, Strong knowledge of state store,middleware,actioncreator,reducer,andcontainer.
* Knowledge of Owsap, OpenSSL, X509
* HavingexperiencedevelopingspringbatchesinLarge-scaleApplications.
* HavingKnowledgeandExperienceon**CockroachDB.**
* Developed MicrosservicestoproducedatatoKafkatopics and consumedatafromKafkatopics.
* Exposureto**Kubernetes**andDockerforContainerorchestration andRabbitMQ
* Exposureto**MicrosoftAzure**,including**Azureservicesrelevanttobackenddevelopment.**

**WORKEXPERIENCE**

**Senior Software Engineer –PPL First May 2024–todate**

**Project Description:** At PPL First, I developed a document verification system using Spring Boot, Core Java, and Angular 16. Customers uploaded documents via PNR, with MongoDB for storage, Kafka for communication, and Spring Web Client for legacy system integration, all managed within an Agile workflow.

* Designed and developed a responsive UI using **Angular 16**, allowing customers to enter their PNR for document verification and uploading.
* Built scalable **REST APIs** with **Spring Boot**, enabling secure communication between front-end and back-end systems.
* Developed and maintained applications using **JDK 17** for backend services.
* Optimized API endpoints to handle over **50,000 requests per hour**, reducing latency and improving customer experience.
* Implemented **AWS SQS** for reliable queuing of document validation tasks and **AWS SNS** for real-time notifications, improving efficiency by 30%.
* Integrated **Kafka** for asynchronous messaging, managing distributed services, and ensuring consistent status updates.
* Leveraged **AWS SES** for automated emails, achieving a **98% delivery success rate** for validation results and notifications.
* Employed **MongoDB** and **AWS DynamoDB** for scalable storage and efficient handling of both non-relational and high-throughput data.
* Utilized **AWS ECS** for scalable container orchestration and **AWS EC2** for hosting and running backend services, improving system performance and scalability.
* Leveraged **AWS ECR** for secure, scalable container image storage and streamlined deployment processes across environments.
* Connected validation servers with checking systems, achieving a **99.5% accuracy** rate in document authenticity checks.
* Deployed containerized applications using **Docker** and orchestrated services with **AWS EKS**, ensuring scalability and portability.
* Monitored server performance with **Prometheus,** maintaining **99.9% uptime** and enabling proactive issue resolution.
* Deployed front-end and back-end components using **CI/CD pipelines**, reducing deployment lead time by 40%.
* Achieved **90% test coverage** by implementing unit and integration tests in **Spring Boot** for robust API functionality.
* Documented workflows, API specifications, and validation processes in **Confluence** for team collaboration and onboarding.
* Collaborated with Agile teams using **Jira** to track progress, manage sprints, and ensure timely delivery.
* Ensured compliance with security standards while processing over **10,000 concurrent users**, maintaining stable application performance.

**Environment**–*Java 17, Spring Boot, Spring-Rest, Spring Jdbc, Postgres, Angular 16, JavaScript, Maven, Spring Data JPA, AWS (SQS, SNS, cloud watch, S3, SNS, DynamoDB), Event-Driven architecture, Microservices*

**OTSI Inc**

**Senior Software Engineer March 2020– May 2024**

**Hyderabad, India**

**Responsibilities:**

* Engineered a robust notification system using **Spring Boot** and **Confluent Kafka**, processing over 100,000 notifications daily with efficient message queuing.
* Designed and optimized **MongoDB** and **AWS DynamoDB** schemas to manage customer preferences, improving data retrieval speeds by 30%.
* Automated daily notifications with **Spring Scheduler** and **AWS SQS**, boosting user engagement by 20% through timely balance alerts and updates.
* Hands-on experience with specific JDK versions JDK 8.
* Enhanced API security using **OAuth 2.0** and **JWT tokens** for authentication and authorization.
* Integrated asynchronous notification processing with **Kafka topics** and **AWS SNS**, ensuring reliable message handling under high-volume conditions.
* Leveraged **AWS SES** for secure and scalable email notifications, achieving high delivery success rates for customer communications.
* Integrated **AWS SWS Gateway** to securely manage API traffic and enhance service reliability.
* Configured **AWS Load Balancer** to distribute traffic across multiple instances, improving system availability and fault tolerance.
* Developed custom error handling and retry mechanisms to ensure resilience during high-traffic scenarios.
* Integrated secure **SMS** and **email APIs** with HTTPS and token-based authentication for compliance with industry standards.
* Utilized **Agile methodologies** with **Jira** for sprint planning and tracking, reducing delivery time by 15%.
* Established CI/CD pipelines with **SonarQube** for code quality checks and automated deployments, reducing bugs by 40%.
* Managed version control with **Git** and collaborated on database schema enhancements, improving access speeds by 25%.
* Deployed containerized services using **Docker** and orchestrated deployments with **AWS EKS**, ensuring scalability and reliability.
* Configured **Nexus/JFrog** for CI/CD artifact management, accelerating deployment processes and ensuring production reliability.
* Conducted unit testing using **JUnit** and **Mockito**, validating error resilience and ensuring robust fault handling.

**Environment**- *Spring Boot, Microservices, AWS SQS, AWS SNS, Maven, Jenkins, AWS EC2, AWS S3, AWS Lambdas, Spring Event Listener, Spring Auditing, Spring Scheduler, Spring JDBC, Spring flyway, Apache Kafka, Spring batch, react Js, JavaScript, Typescript, Redux, AWS Lambda, API Gateway, Event-Driven architecture, Java 8.*

**TechStar Group June2019–Jan2020**

**Software Engineer**

**Hyderabad, India**

**Responsibilities:**

* Involved in gathering the requirements, analysis, design & development of the project.
* Integration with Angular application with Restful Services.
* Good knowledge and working experience in AngularJS.
* Created a res-useable component, custom modules, routes, and pipes in angular.
* Hands-on experience writing unit test cases in angular.
* Handling distributed SQL databases designed for cloud-native applications using CockroachDB.
* Create spring boot microservices and perform the CRUD (Create, update, delete, Read).
* Worked on the core team to monitor and enhance the application's performance.
* Having Deployed Microservices in a Cloud Platform (AWS).
* Used Amazon Cloud Watch to monitor AWS services and Amazon Cloud Watch logs to monitor applications.
* Used AWS SDK for connection to Amazon S3 buckets as it is used as the object storage service to store and retrieve the media files related to the application.
* Used Apache Kafka for pub-sub and broadcast.

**Environment –***Java 8, Spring Boot, Spring-Rest, Spring JDBC, Apache Camel, TestNG, Spring DataJpa, Oracle, Micro Services, Angular16, Node.Js, AWS EC2, RDS, S3, Apache Kafka, Cockroach DB.*

**Infor**

**Java Developer May2014–May2019**

**Hyderabad, India**

**Responsibilities:**

* Involved in gathering the requirements, analysis, design & development of the project.
* Worked in an Agile methodology environment and participated in Scrum sessions designing, developing, implementing, and testing the distributed applications.
* Debugging codes when required and troubleshooting any Python-related queries.
* Writing efficient, reusable, and testable code in Springboot.
* In-depth knowledge of Spring frameworks and libraries.
* Developed and maintained Spring applications for web, data analysis, and automation projects, improving operational efficiency and reducing processing time by 20%.
* Integrated third-party APIs, improving the functionality and user experience by enabling real-time data processing.
* Developed Microservice Services using Spring Boot and Data JPA on crud operations.
* Collaborated with front-end developers to implement interactive and responsive UI components using Python-based backends and Angular for seamless full-stack development
* Wrote unit and integration tests using Mockito and unit tests, achieving 90% code coverage.
* Developed custom data pipelines using Pandas and NumPy to process large datasets for analysis and reporting.
* Configured Splunk monitoring alerts based on error conditions
* Developed Persistence layer using NoSQL (Cosmodb, DynamoDB).
* Assisted in the design and development of Python-based applications for automating data processing and client reporting
* Participated in code reviews, ensuring adherence to coding standards and best practices.

**Environment**–Java *8, Spring boot, Microservices, AWS SQS, SNS, S3, CloudWatch, DQL, RDS, JPA, COSMOBD, Postgres, Dynatrace, Event-Driven Architecture, Angular16.*

**EDUCATION**

**B. TECH (ECE) from JNTUK2014**

Bachelor of Technology in Electronics and Communication Engineering.

**SKILLS**

**Software development Technologies:** *Object Oriented Programming, Java, J2EE, JDBC, Hibernate,Spring MVC, Spring Boot, Restful, SOAP Web Services, Microservices, Jenkins, AWS -S3, SQS, Cloud watch, JMS, Spring flyway, Spring Event Listener, Spring Auditing, Spring Scheduler, Mail API, Spring Validation, Spring JDBC, Spring Tx, ActiveMQ, Apache Cassandra.*

**UI Web Technologies:***HTML/HTML5, AJAX, JSON, XML, React Js, JavaScript, Angular, TypeScript*

**IDE’s:** *Eclipse, IntelliJ IDEA, SVN*

**Version Control:** *GIT, SVN*

**Web/App Servers:** *WebLogic, JBoss, Tomcat*

**Data Base/Programming Languages:** *Oracle, MySQL, Postgres SQL*

**Build Tools:** *Gradle, Maven*

**Testing Frameworks:** *JUnit, Apache JMeter, Mockito*

**Additional Tools/Implementation:** *Swagger, JIRA.*

**Cloud Services: *Amazon*** *S3, SQS, SNS, Cloud watch, Lambda, API Gateway, GCP, AWS CLI, Azure*

**Containerization & Orchestration**: *Docker, Kubernetes.*

**NO SQL Database:** *MongoDB, Cosmodb, Amazon Dynamo DB.*

**Frameworks:** *Spring boot, Drop wizard*