K. Venkata Subbarao

venkat.koniki1996@gmail.com +91-85000-85263
linkedin.com/in/koniki-venkata-subbarao-3b71281b4 github.com/venkatkoniki

Professional Summary

Backend-focused Software Engineer with 7+ years of experience in distributed systems using Java (21), Spring Boot, and microservice architecture. Experienced in designing RESTful APIs, optimizing batch jobs, and deploying containerized services across OCI. Skilled in CI/CD, system observability, and Agile delivery of secure and scalable cloud-native applications.

Technical Skills

Languages: Java (21) (OOPs, Multithreading, Concurrency, Collections), Node.js
Backend Frameworks: Spring Boot, Spring Core, Spring AOP, Spring Web, Spring Cloud, Hibernate, Helidon MicroProfile, JAX-RS
Frontend Technologies: React.js, Angular, HTML5, CSS3
API Design: REST APIs, JSON-based contracts, Swagger/OpenAPI
Security: OAuth 2.0, JWT, Fortify, SonarQube
Cloud & DevOps: Oracle Cloud (OCI), Oracle Object Storage, Docker, Kubernetes, Jenkins, Git, Maven
Databases: Oracle, MySQL
Testing Tools: JUnit, Mockito
Application Servers: Tomcat, JBoss
Core CS Concepts: Data Structures, Algorithms, Design Patterns, System Design

Professional Experience

Oracle – Senior Member of Technical Staff *Sept 2022 – Present*
Project: Spectra Batch Service – Oracle Fusion Cloud Integration

- Designed and implemented a container orchestration platform enabling execution of over 100K user-defined containerized jobs per month using Kubernetes, Spring Boot, and Oracle Cloud Infrastructure (OCI), supporting various Fusion application workloads.
- Architected and developed core microservices—JobRepository, JobScheduler, JobExecutionManager, and JobMonitor—to manage the full job lifecycle, enabling efficient scheduling, execution, and real-time tracking of batch jobs.
- Developed dynamic resource allocation and queuing mechanisms that evaluate CPU/memory availability per job before execution, improving container utilization by 25% and preventing over-provisioning during peak loads.
- Implemented tenant-level resource management using Kubernetes ConfigMaps, allowing isolated quota enforcement (CPU, memory) across customers sharing a namespace, and reducing cross-tenant interference.
- Built a real-time job monitoring system integrated with OCI Streams and a message queue to asynchronously push job status updates, improving system transparency and enabling faster debugging through live logs.
- Exposed secure RESTful APIs to allow internal teams to submit container jobs with metadata (image, env variables, resource limits), reducing manual setup and accelerating team onboarding by 40%.

- Automated CI/CD deployment workflows using Jenkins pipelines and Helm charts for Kubernetes, reducing deployment effort and enabling consistent, rollback-safe rollouts in under 4 hours.
- Integrated Prometheus and Grafana for system observability, creating dashboards to monitor job health, system throughput, and SLA compliance, significantly reducing issue resolution time and improving platform stability.

Tech Stack: Java, Microservice Architecture, JAX-RS, Docker, Kubernetes, OCI Object Storage, OCI Queues, Octo, Grafana, Prometheus, Ocean

Brillio – Senior Engineer *Dec 2020 – Sept 2022*
Project: SQDB (5G Service Qualification Platform) – Client: Verizon

- Worked on the 5G service qualification engine using Spring Boot and Node.js. Supported network checks across U.S. locations as part of Verizon's rollout.
- Migrated legacy systems to containerized microservices using domain-driven design principles. Deployment time was reduced by 40%, and modular scaling was introduced.
- Built dashboards using React and Leaflet.js to visualize real-time network coverage and performance. Helped improve customer support with faster issue resolution.
- Developed and optimized RESTful APIs to handle high-volume, low-latency requests. Applied caching and batching techniques to improve performance by 30%.
- Used Fortify and SonarQube tools integrated into Jenkins CI pipelines to maintain secure, high-quality code. Contributed to successful release readiness.
- Supported end-to-end delivery through UAT, regression testing, and version-controlled deployments. Maintained 100% SLA adherence across multiple sprints.

Tech Stack: Java 8, Spring Boot, React.js, Node.js, Leaflet, Oracle, Maven

Amaravadhis Software Services – Senior Software Engineer *Nov 2018 – Dec 2020*
Project: Sumadhura Customer Support App – Client: Sumadhura Infracon

- Built a customer complaint resolution platform using Angular and Spring Boot, improving query resolution rates by 25%. Integrated backend APIs with Oracle database for real-time ticket management.
- Tuned Oracle PL/SQL procedures to optimize DB performance in high-concurrency use cases and reduce response time for key transactions.
- Led end-to-end development and managed UAT for successful production rollouts. Maintained communication with business teams to gather requirements and align deliverables.
- Delivered cross-functional modules by coordinating with QA, backend, and DevOps teams to ensure smooth handoffs and zero-defect releases.

Tech Stack: Angular, Spring Boot, Oracle, JPA, Maven

Certifications

SAFe Agile Practitioner – Scaled Agile, Inc.

Education

B.Tech in Computer Science and Engineering *2013 – 2017*
University College of Engineering and Technology, Acharya Nagarjuna University, Guntur, India