

Muralidhar Eppakayala

Orlando, FL | (201) 423-2044 | mura.eppa@gmail.com | [linkedin.com/in/meppakayala](https://www.linkedin.com/in/meppakayala)

PROFESSIONAL PROFILE

Highly accomplished seasoned software professional with 18 years of expertise in the full software development lifecycle, from design and architecture to deployment and management of complex, distributed applications. Proven track record in building scalable microservices and RESTful APIs, with deep knowledge of database technologies and cloud environments (Openshift, PCF, AWS). Proficient in CI/CD and Agile methodologies, with a consultative approach to problem-solving and delivering impactful solutions.

SKILLS

- Java, Spring Boot, Microservices, REST API Development, Cloud Native Application Development
- Spring ecosystem including Spring MVC, Spring Cloud, Spring Data JPA/JDBC, Spring Kafka, Spring Batch, Spring Security, Hibernate
- Javascript, HTML/CSS, J2EE, JMS, SOA; OOAD; OOP, JSP, Servlet, Restful and SOAP-based web services
- Python, Kafka, Kafka Streams, Message Queues(MQ) , Elasticsearch and Opensearch
- Oracle, DB2, MySQL, Postgres, SQL, NoSQL, Redis, DynamoDB, Cassandra
- CI/CD, Jenkins, Github, GitLab CI, Maven, Gradle, AppDynamics, Splunk, SonarQube
- Amazon Web Services (AWS), OpenShift (OCP), Pivotal Cloud Foundry (PCF), Containerization, Docker, Kubernetes
- Postman, ReadyAPI, OpenAPI/Swagger, Test Driven Development, Unit Tests, JUnit, Mockito, Cucumber, Karate
- Application Modernization, JIRA, Agile SAFe framework, SDLC, Agile development methodologies
- Microservice Architecture, Event-Driven Architecture, Cloud Native Architecture, Application Architecture
- Semantic Search, Vector Search, Similarity Search, Amazon OpenSearch Service, Amazon Bedrock, Foundation Models (FMs), Vector Embeddings, Retrieval Augmented Generation (RAG), Natural Language Processing (NLP)

WORK EXPERIENCE

Lead Developer, Deloitte Consulting LLC, Orlando, FL

May 2015 – Present

- **Client: Healthcare Client**
- As a Lead developer and coding architect, Led the design, architecture, and development of a high-performance, event-driven architecture (EDA) and Microservice architecture solution for a federal health client to ensure the safety and effectiveness of biological products including vaccines, allergenics and prevention, diagnosis, and treatment of human diseases.
- Implemented a robust microservices ecosystem with 50 services and over 500 REST APIs, utilizing Java, Spring Boot. Seamlessly integrated Oracle relational databases, Elasticsearch for search, and Kafka for real-time messaging.
- Leveraged OpenShift's capabilities to deploy and manage a Kafka cluster via the Strimzi operator, and established a scalable Kafka Connect cluster capable of handling over 1 million messages per day,, demonstrating proficiency in containerized application deployment and management.
- Successfully implemented and configured Kafka Connect connectors on OpenShift, including File Pulse, Elasticsearch Sink, and JDBC Source, to facilitate robust data streaming from diverse sources.
- Designed and developed an automated testing tool using Java and Spring Boot to effectively test a complex event-driven system that significantly reduced the testing team's efforts and improved testing team efficiency.
- Enhanced software quality and reduced technical debt by implementing code quality tools (SonarQube, Checkstyle) for proactive defect identification, and by performing regular code reviews to ensure adherence to secure coding standards.
- **Technologies:** Java, Spring Boot, Kafka, AWS, OpenShift, Elasticsearch, REST API, Oracle, SQL, Spring Data JPA, Microservice Architecture, Spring Framework, Hibernate.
- **Client: Transportation and Logistics Domain Client**
- In my capacity as Tech Lead and Developer, I was responsible for the end-to-end design and implementation of a Data Services Solution tailored for a Transportation Company. This solution provided access to and management of the company's product, location, and geographical data.
- This involved defining a microservice architecture using Java and Spring Boot, deploying to Pivotal Cloud Foundry cloud platform, and establishing a continuous integration/continuous delivery (CI/CD) pipeline with Jenkins.
- Developed and consumed RESTful APIs using Java, Spring Boot to integrate internal systems, streamlining data exchange and improving process efficiency
- Led and mentored three development teams totaling 30 members across multiple locations, fostering collaboration and ensuring consistent delivery of high-quality code.
- Successfully presented the solution design and architecture to client stakeholders, securing buy-in and delivering the project within a challenging 9-month timeframe, resulting in client commendation for its quality and timely completion.
- **Technologies:** Java, Spring Boot, PCF REST API, Oracle, SQL, Spring Data JPA, Microservice Architecture, API Gateway, JUnit and Mockito, Javascript, HTML/CSS

- **Client: Healthcare Client**

- As a Senior Developer, Designed and developed high-performance Java components for a mission-critical enterprise application serving multiple U.S. state government health departments.
- This work directly streamlined public benefit program application processes, resulting in improved access for eligible individuals, reduced administrative costs, and minimized casework duplication across numerous states.
- Developed core services with **Java/J2EE, Spring framework, and Hibernate**, integrating seamlessly with **JMS and MQ** for reliable message delivery.
- Contributed to all phases of the SDLC, from requirements gathering and business logic analysis to program design and implementation. Developed and deployed Java/J2EE applications on IBM WebSphere, integrating services using Spring, SOAP (JAX-WS), and RESTful APIs.
- Implemented JDBC and SQL solutions to achieve faster data retrieval and processing in Java applications.
- Developed and maintained complex SQL queries for Oracle databases, ensuring data accuracy and supporting critical business reporting.
- Utilized Jenkins to build robust CI/CD pipelines that improved software quality through automated testing and reduced deployment errors
- Utilized Test-Driven Development (TDD) to design and develop robust software components, leading to cleaner code and fewer production issues
- Utilized advanced research, analytical and problem-solving skills to diagnose and resolve a critical system outage, minimizing downtime.
- **Technologies: Java, J2EE, Spring Framework, Hibernate, DB2, SQL, JMS, SOA, SOAP Web Services, JUnit, IBM WODM, IBM Websphere, Mockito, JSP, Servlet, Javascript, HTML/CSS**

Technical Lead Developer, Moodys, NY

February 2012 – May 2015

- As the Technical Lead Developer for Moody's Pyramid Public Finance Group, I was responsible for the design, maintenance and feature development of a sophisticated enterprise system that generated **ratings, from Aaa to C**, and billing for **public finance entities**.
- My responsibilities included leading a 10-person offshore development team, providing onsite technical leadership, and maintaining strong client communication to ensure timely and effective project delivery.
- Collaborated with clients to gather requirements, design enhancements, propose solutions, and provide accurate estimations, present technical designs and subsequently lead the successful delivery of these enhancements to production.
- Proactively analyzed existing SQL queries to identify performance bottlenecks, implementing optimizations that significantly improved data retrieval speeds.
- Implemented JPA for object-relational mapping (ORM), simplifying database operations and reducing development time for enterprise applications.
- Designed and implemented robust and scalable technical solutions using Java and J2EE design patterns.
- Led the full lifecycle development of enterprise applications, utilizing IBM WODM business rules and Spring Hibernate frameworks, encompassing initial development through ongoing production maintenance and enhancements.
- **Technologies: Java, J2EE, Spring Framework, Hibernate, DB2, SQL, JMS, SOA, SOAP Web Services, JUnit, IBM WODM, IBM Websphere, Mockito, JSP, Servlet, Javascript, HTML/CSS**

Technical Lead Developer, Deutsche Bank, Frankfurt

June 2008 – February 2012

- As a Technical Lead Developer, I spearheaded the complete SDLC for a critical Deutsche Bank enterprise application. This application provided IT services for their **Brokerage and Advisory divisions**, including managing **closed-end fund subscriptions** at branch offices and delivering client portfolio insights.
- Architected and implemented robust J2EE applications leveraging EJB 2.1, 3.0 and Servlet technologies, supporting critical business processes and enhancing system performance.
- Designed and developed robust and scalable web components using the Struts Framework and MVC architecture.
- Designed and implemented high-performance web applications using JSP and Struts frameworks, improving user experience and application responsiveness
- Collaborated with stakeholders at Client Site Deutsche Bank (Frankfurt, Germany) to gather requirements and presented technical designs, effectively communicating complex concepts and ensuring alignment with client needs.
- Served as a trusted advisor to senior leadership, providing expert guidance on complex engineering challenges and influencing strategic technology decisions that impacted the organization's bottom line.
- Achieved Outstanding performance ratings for two consecutive years, earning membership in the company's prestigious O2 League.
- **Technologies: Java, J2EE, Struts, Spring, ORM, Hibernate, Oracle, SQL, Tomcat, Weblogic, JUnit, Mockito, JSP, Servlet, Javascript, HTML/CSS**

Software Engineer, Four Soft Ltd, Hyderabad, India

May 2006 – May 2008

- **Client: Fedex, Eagle Global Logistics**
- During my tenure as a Junior Java Application Developer, I played a key role in the development of 4S eTrans, a comprehensive J2EE enterprise application designed to streamline **freight service provider operations across air, ocean, and truck transportation**.
- I directly contributed to the implementation of critical web and server-side components, utilizing Java and related technologies. This work facilitated **real-time shipment tracking**, automated essential processes, and significantly improved operational efficiency and customer service
- Contributed to developing multiple new features in the Company's flagship software product, 4S eTrans.
- Proficient in Java programming language, including Servlets, JSP, JDBC and EJB and Java/J2EE design patterns.
- Developed and maintained Java applications using core Java concepts, demonstrating a strong understanding of object-oriented programming principles
- Contributed to the development of database-driven applications using JDBC, writing SQL queries and stored procedures.
- **Technologies: JAVA, J2EE (JSP, Servlets, EJB, JDBC), Oracle 10g, OC4J, JavaScript, HTML, AJAX, JSTL**

EDUCATION

Master of Technology in Computer Engineering

September 2004 - January 2007

Jawaharlal Technological University

Bachelor of Technology in Computer Engineering

September 1999 - April 2003

Jawaharlal Technological University

CERTIFICATIONS

- Professional Scrum Master
- Sun Certified Programmer for the Java Platform, 5.0
- AWS Certified Solutions Architect-Associate(2019 -2022)
- AWS Certified Developer - Associate (2018 - 2021)
- IBM Websphere Operational Decision Management V8.0 Application Development (WODM)