

MURALI SAI SRINIVAS MADHYAHNAPU

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Professional Summary

Java Full Stack Developer with 3 years of enterprise banking application development. Expertise in Java EE, Spring Boot, React, Node.js, SQL Server, JBoss EAP, and WebLogic. Deployed 25+ microservices with 65% faster deployment times and generated \$2.1M cost savings through automation solutions.

Professional Experience

Systems Engineer

Tata Consultancy Services Ltd.

Mar 2021 – Aug 2023

Mumbai, India

- Developed and deployed 25+ microservices using Java, Spring Boot, and Docker, reducing deployment time by 65% and enabling 30% faster scaling for 10M+ banking customers
- Built enterprise Java applications using Spring Framework, Hibernate, and RESTful web services, serving critical banking operations across 3,800+ branches
- Implemented SOAP and REST APIs for seamless integration between banking systems, processing \$500M+ daily transaction volume with 99.9% reliability
- Developed and optimized 100+ SQL Server stored procedures, queries, triggers, and views to support critical banking applications
- Managed JBoss EAP and WebLogic application servers across 12+ production environments, achieving 99.9% uptime
- Implemented CI/CD pipelines using Jenkins and Git, enabling continuous integration for 8 major software releases with 95% defect-free rate
- Led cross-functional teams of 15+ developers to deliver New Branch Channel banking platform across 3,800+ branches nationwide
- Created automated ETL pipelines processing 2M+ records daily, reducing data processing time from 4 hours to 45 minutes (82% improvement)
- Engineered automated solutions using Python and Shell scripting, eliminating 40+ hours of weekly manual work and reducing operational costs by \$180K annually
- Resolved 200+ critical production incidents with 95% SLA compliance, ensuring business continuity for Fortune 500 banking client

Key Projects

DegreeWheels - University Rideshare Platform | *React 18, Node.js, PostgreSQL, REST APIs* **Sept 2024 – June 2025**

- Architected full-stack web application using React 18 and Node.js, implementing MVC design pattern and connecting 1,000+ students with real-time messaging
- Designed normalized PostgreSQL database schema with complex relationships supporting user management, ride coordination, and messaging for 10,000+ users
- Built secure RESTful APIs with JWT authentication and university email verification system, ensuring 100% verified academic credentials
- Integrated Mapbox GL JS for dynamic mapping with route optimization, reducing pickup coordination time by 60% and achieving 4.7/5.0 user ratings

American Airlines - Baggage Arrival Prediction System | *Python, Machine Learning, ARIMA, AWS* **Jan 2025 – May 2025**

- Built Random Forest regression model achieving 80% accuracy ($R^2 = 0.80$) for predicting baggage arrivals, analyzing 50.9M historical records
- Developed ARIMA-based forecasting system with 7-day sliding window, improving baggage handling efficiency by 18% for 43.8M bags processed annually
- Applied K-means clustering algorithms to categorize flight patterns, identifying optimization opportunities projected to reduce processing time by 25%
- Deployed scalable solution on AWS cloud infrastructure using Lambda functions and S3 storage for real-time data processing

Education

University of North Texas <i>MS in Advanced Data Analytics</i> <ul style="list-style-type: none">GPA: 3.8/4.0Relevant Coursework: Machine Learning, Statistical Modeling, Big Data Analytics, Database Systems, Large Data Visualization	May 2025 <i>Denton, TX</i>
SRKR Engineering College <i>BTech in Electrical and Electronics Engineering</i> <ul style="list-style-type: none">CGPA: 7.59/10.0Relevant Coursework: Programming, Data Structures, Algorithms, Systems Design	Sept 2020 <i>India</i>

Core Competencies

Programming Languages: Java (Core Java, Java EE), Python, JavaScript, SQL, R, Shell Scripting, PL/SQL, T-SQL
Java Technologies & Frameworks: Spring Framework, Spring Boot, Hibernate, Spring Batch, MyBatis, Maven, JSF, Microservices Architecture
Application Servers & Middleware: JBoss EAP, WebLogic, Apache Tomcat, Application Deployment, SSL Configuration
Web Technologies: React 18, Angular, Node.js, HTML5, CSS3, JavaScript/TypeScript, REST APIs, SOAP Web Services, JSON, XML
Database Systems: SQL Server (Stored Procedures, Views, Functions, Triggers, Replication, Performance Tuning), Oracle, MySQL, PostgreSQL, JDBC
Cloud & DevOps: AWS (S3, Lambda, EC2), Docker, Kubernetes, CI/CD Pipelines, Jenkins, Git, Linux, Unix Administration
Development Tools: Maven, Git, JIRA, Eclipse, IntelliJ IDEA, SQL Server Management Studio, Agile/Scrum Methodologies
Testing & Quality: Unit Testing, Integration Testing, UI Testing (Jasmine, Karma), Code Reviews, Performance Optimization, Debugging

Certifications & Achievements

Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25) <i>Expertise in end-to-end ML lifecycle, MLOps, AutoML, and OCI SDK tools for scalable cloud-based model deployment</i>	July 2025
TCS Excellence Award <i>Outstanding performance in banking platform development and database administration</i>	2023

Additional Information

Work Authorization: Authorized to work in the United States
Languages: English (Fluent), Telugu (Native), Hindi (Conversational)
Professional Interests: Java Enterprise Development, Microservices Architecture, Financial Technology, Cloud Computing
Availability: Immediate availability for full-time positions