Rajasekhar Narapareddy

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PROFESSIONAL SUMMARY

Senior Software Engineer with 15+ years of experience building enterprise-scale Java applications and cloud-native platforms. Currently leading architecture and development of a large-scale data migration platform (10M+ records) with AI-powered monitoring using Azure OpenAI/GPT-4. Deep expertise in Spring Boot, Microservices, AWS, and GenAI integration. AWS Certified Solutions Architect.

TECHNICAL SKILLS

Languages:	Java 17, Python, SQL, JavaScript
Frameworks:	Spring Boot 3, Spring Cloud, Hibernate, Microservices, REST APIs
Cloud:	AWS (Glue, S3, ECR, Lambda), Azure OpenAI
AI/ML:	GenAI, LLM Integration (GPT-4), Prompt Engineering, AI Chatbots
Data:	DB2, PostgreSQL, Oracle, MySQL, ETL Pipelines
DevOps:	Docker, OpenShift, Jenkins, CI/CD, GitHub Actions
Tools:	Git, Maven, Gradle, Kafka, RabbitMQ

PROFESSIONAL EXPERIENCE

Acro Systems (Client: Prudential Financial)   Oct 2021 – Present
Senior Software Engineer / Tech Lead | Charlotte, NC

- Architected and led development of enterprise data migration platform processing 10M+ insurance policies across 5,000 contracts, migrating from legacy DB2 mainframe to cloud-native architecture
- Designed microservices-based extraction framework using Python and Spring Boot, orchestrating parallel data pipelines that process 20-30 entity types per contract with fault-tolerant retry mechanisms
- Built AI-powered chatbot integrating Azure OpenAI (GPT-4) with custom metadata lineage engine, enabling real-time migration status queries and automated anomaly detection
- Engineered ETL metadata generation system that produces comprehensive data lineage JSONs for every migration commit, serving as the single source of truth for audit and compliance
- Led team of 10-20 engineers, driving architectural decisions, code reviews, and sprint planning across distributed teams
- Deployed containerized services via Amazon ECR, implementing CI/CD pipelines for automated testing and zero-downtime deployments

Technologies: Python, Java, Spring Boot, AWS Glue, S3, ECR, Azure OpenAI, DB2, Microservices, Docker

Washington University in St. Louis   Mar 2020 – Oct 2021
Senior Software Engineer | St. Louis, MO

- Designed and built cloud-native integration platform connecting 3 enterprise systems (Unifier, KFS, Jaggaer) using Spring Boot microservices on Red Hat OpenShift
- Implemented event-driven architecture using RabbitMQ for real-time synchronization of purchase orders, requisitions, and invoices across distributed systems
- Developed Oracle APEX web applications for university payroll and parking services, reducing manual processing by automating deduction workflows
- Leveraged OpenShift PaaS components (ConfigMap, Secrets, Service Registry) for secure, scalable cloud deployments with Spring Cloud integration

Technologies: Java 8, Spring Boot, Red Hat OpenShift, Oracle APEX/ORDS, RabbitMQ, Oracle Exadata

Washington University in St. Louis   Feb 2018 – Jan 2020
Lead Software Engineer | St. Louis, MO

- Led development of integrated Bio-Specimen Management System using Java EE, Grails, and Spring frameworks for clinical research data management
- Designed and implemented ETL pipelines using Pentaho for computational analysis of clinical data in observational studies
- Built automated reporting system using BIRT Report Engine, delivering real-time analytics to research stakeholders

- Managed CI/CD pipelines with Jenkins and Ansible for automated deployment to RHEL environments

Technologies: Java 8, Spring, Grails, Pentaho ETL, BIRT Reports, Jenkins, Ansible, RHEL, Oracle 11g

Infosys (Client: CVS Health)   Aug 2016 – Feb 2018

Senior Application Developer | Woonsocket, RI

- Developed HIPAA-compliant master data management platform (IBM InfoSphere MDM) handling patient health information across enterprise source systems
- Built RESTful microservices using Spring Boot and Spring Security for secure PHI data exchange with high-availability requirements
- Designed MDM Java handlers for pre/post transaction processing, ensuring data integrity across distributed systems
- Led offshore development team, driving daily standups and production support for mission-critical healthcare application

Technologies: Java/J2EE, IBM InfoSphere MDM, Spring Boot, Spring Security, Hibernate, DB2, WebSphere, REST

Tata Consultancy Services   Aug 2011 – Aug 2014

Software Engineer | Chennai, India

- Built high-throughput batch processing systems using Spring Batch, optimizing bulk data operations for enterprise applications
- Performed database performance tuning on Oracle and SQL Server, reducing query execution times for critical business workflows
- Developed RESTful web services and MVC applications using Spring framework and Hibernate ORM

Technologies: Java/J2EE, Spring MVC, Spring Batch, Hibernate, Oracle, SQL Server

EDUCATION & CERTIFICATIONS

AWS Certified Solutions Architect – Associate — Amazon Web Services

Master of Science in Electrical Engineering — The University of Texas at Arlington, August 2016

Bachelor of Science — SASTRA University, May 2011

PROJECTS

AI Gateway Platform — Centralized LLM gateway with policy enforcement, cost control, and audit logging for enterprise AI applications (Python, FastAPI, Azure OpenAI, AWS Bedrock, PostgreSQL, Redis, Docker)

Zero-Downtime Data Migration & Reconciliation Engine — Orchestrates large-scale data migrations with zero downtime, automated validation, and reconciliation (Python, AWS Glue, S3, Apache Spark, Docker)

Cost-Aware Observability Platform — OpenTelemetry-based system correlating logs, metrics, and traces with intelligent cost optimization (OpenTelemetry, Prometheus, Grafana, Python, Kafka, ElasticSearch)

ShopKrisha.com — Full-stack e-commerce platform with product catalog, cart, and checkout (React, Next.js, Node.js, TypeScript)