






## HariKrishna Tankala

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### SOLUTIONS ARCHITECT | CLOUD & ENTERPRISE SYSTEMS | FULL-STACK INTEGRATION

Innovative Solutions Architect with 16+ years of experience designing and delivering enterprise-scale, cloud-native, and integration-heavy platforms. Proven ability to translate business epics and features into well-structured solution designs. Expert in Java, Spring Boot, Node.js, microservices, Angular/VueJs and AWS, with deep understanding of system integration, data flow, and scalable architecture. Skilled at partnering with product owners, analysts, and technical leads to align architecture with business strategy—especially in mortgage, lending, and SaaS multi-tenant domains.

#### CORE SKILLS

- Solution & Systems Architecture | Microservices & API-First Design
- AWS Cloud Architecture | Serverless (Lambda, API Gateway, S3, DynamoDB)
- Enterprise Integration | Workflow Automation | Messaging (Kafka, MQ)
- Data & Storage: MS SQL Server, MySQL, DynamoDB, Caching Strategies
- Agile Delivery | CI/CD (Jenkins, Maven, Git, Docker, Kubernetes)
- REST & SOAP Services | Security (Spring Security, OAuth2)
- Distributed Computing | Scalability | Performance Optimization

#### PROFESSIONAL EXPERIENCE

CSX Corporation – Jacksonville, FL (Hybrid)

| Jul 2025 – Present

Senior Software Engineer / Technical Lead

Project: Modernization of Legacy JSP Application to Angular + Spring Boot Full Stack Platform

- Leading modernization of a proprietary JSP-based enterprise application into a scalable Angular + Spring Boot full stack architecture.
- Architecting and implementing reusable components, RESTful APIs, and service layers for modular and maintainable codebase.
- Managing migration strategy, data integration, and interoperability between legacy and new applications to ensure uninterrupted business operations.
- Supporting and maintaining the existing legacy system while driving parallel development of the modernized version.
- Collaborating with business analysts, QA, and DevOps teams to ensure smooth transition, quality delivery, and CI/CD automation.
- Providing technical guidance and mentoring to team members on Angular development, Spring Boot best practices, and integration patterns.

Dark Matter Technologies – Jacksonville, FL (Remote)

| September 2023 – March 2025

Lead Java Full Stack Engineer / Solutions Architect

Projects: Borrower Digital Portal, Loan Officer Digital, Mortgage Product & Pricing Engine

- Architected and led development of a multi-tenant SaaS borrower portal using Spring Boot, Angular/Vue micro frontends, and AWS serverless components.

- Designed end-to-end solution architecture integrating Loan Origination System (LOS) modules with pricing and product engines, ensuring secure, seamless data synchronization across channels.
- Partnered with product owners, business analysts, and domain architects to convert epics/features into technical solution blueprints and high-level design diagrams.
- Created reusable integration patterns for mortgage APIs, partner systems, and third-party services, improving onboarding time and reducing manual configuration.
- Developed RESTful APIs and orchestrated backend services using Java Spring Boot, Node.js, and AWS Lambda, ensuring compliance with performance and scalability requirements.
- Built a metadata-driven configuration engine for dynamic client setup, deployed through automated CI/CD pipelines using Docker and AWS Parameter Store.
- Delivered architecture artifacts (PPT, sequence diagrams, data flow charts) for cross-team alignment and stakeholder approval.

Black Knight Financial Services – Jacksonville, FL  
Senior Full Stack Engineer / Application Architect

| Jan 2020 – Sep 2023

Projects: LendingSpace, Seller Digital, Mortgage LOS Migration

- Designed and implemented migration of legacy JSP-based LOS into a serverless AWS architecture, improving scalability and maintainability.
- Architected integration layers connecting borrower and seller portals with internal pricing, product, and rule-based decision systems.
- Enhanced Product & Pricing Engine using Java 8 concurrency and Spring Boot, increasing throughput and reducing processing latency by 40%.
- Created detailed architecture and design documents, including sequence diagrams, solution overviews, and component interactions.
- Partnered with DevOps to design CI/CD pipelines and automate multi-environment deployments.
- Collaborated with enterprise architects and SMEs to standardize API contracts and integration touchpoints across platforms.

Black Knight Financial Services – Hyderabad, India  
IT Applications Development Manager

| Apr 2014 – Dec 2019

Projects: Correspondent Lending System – Configurable Workflow & Pricing Engine

- Directed a team building a configurable workflow and pricing engine used across multiple mortgage clients.
- Designed reusable frameworks for workflow automation, task routing, and business rule evaluation.
- Implemented SOAP/REST integrations for product pricing and third-party lender systems.
- Recognized for delivering a production-ready pricing engine that enabled dynamic rate updates and improved lender efficiency.

Lender Processing Services (LPS) – Hyderabad, India  
Lead Software Engineer

| Jul 2012 – Apr 2014

Projects: Correspondent Lending Portal

- Led development of mortgage pricing and eligibility modules using Java/JSP and a custom ORM framework.
- Reduced pricing engine response time by 60% through caching and query optimization.

- Integrated external pricing data providers and credit bureau APIs for real-time eligibility checks.

LendingSpace India Pvt. Ltd. – Hyderabad, India

| Oct 2008 – Jun 2012

Sr. Programmer Analyst / Programmer Analyst

Projects: LendingSpace Loan Origination Platform (LOS)

- Developed and enhanced key LOS modules supporting payment calculations, workflow automation, and eligibility rules.
- Integrated pricing logic and mortgage rate engines with external APIs.
- Optimized application performance and implemented validation and security enhancements.

## EDUCATION

- Master of Science in Information Studies (MSIS) – Trine University, USA
- Bachelor of Computer Applications (BCA) – Andhra University, India

## TECHNOLOGY SUMMARY

- Languages: Java, JavaScript, TypeScript, Node.js
- Frameworks: Spring Boot, Spring Data, Spring Security, Hibernate, Angular, Vue.js
- Cloud Platforms: AWS (Lambda, S3, DynamoDB, API Gateway, CloudFront), GCP (BigQuery, Compute), Azure
- Databases: Oracle, MySQL, MS SQL Server, MongoDB, DynamoDB
- DevOps Tools: Jenkins, Git, Maven, Docker, Kubernetes, SonarQube
- Messaging: Kafka, IBM MQ, EventBridge
- Testing: JUnit, Mockito, Postman
- Workflow & CRM: Salesforce Service Cloud, ServiceNow

## ARCHITECTURE & PROJECT HIGHLIGHTS

- Led architecture and integration of multi-tenant borrower and loan officer portals with mortgage LOS and pricing engines.
- Designed scalable microservice architecture integrating on-prem and cloud systems across AWS and GCP.
- Delivered API-first and event-driven frameworks for mortgage data synchronization and partner integrations.
- Implemented metadata-driven configurations enabling client-specific automation and reducing release overhead.
- Contributed to GenAI and conversational AI prototypes leveraging RAG architecture and vector database embeddings.