

# NITHYA MANJUNATHAPPA

nithyamanjunathappa@gmail.com | <https://www.linkedin.com/in/nithya-manjunathappa/> | (312)-874-9223

Staff Technical Program Manager with 12+ years of experience leading AI/ML-enabled platforms, enterprise cloud systems, and technical programs. Built scalable AI-assisted workflows, LLM-driven systems, and real-time decision platforms transforming engineering and production data into actionable insights.

## PROFESSIONAL EXPERIENCE

### Rivian Automotive – Staff Technical Program Manager

Palo Alto | Dec 2021 – Present

- Launched role-based AI assistants on AWS Bedrock integrating PLM, MES, and ERP systems through FastAPI routing, LangGraph orchestration, ECS Fargate deployment patterns, and secure service-layer controls, enabling scalable AI-assisted workflows adopted by 100+ active users within the first 3 months while reducing processing time by ~5.5x and saving 500+ hours annually.
- Designed LLM-based decision and change intelligence systems spanning engineering change, BOM, and production operations, enabling traceable evaluations, human-in-the-loop approvals, and scalable operational decision-making while balancing latency, retrieval freshness, and operational reliability.
- Owned and scaled AI/ML-enabled manufacturing data platforms and execution systems across 6 shops and 50+ production lines, streaming real-time production and quality signals into centralized Databricks environments to power computer vision, operational analytics, and change intelligence systems.
- Built AI-driven reliability intelligence systems that transformed unstructured service and production data into root-cause insights for DFMEA and proactive failure prevention, reducing manual triage effort by ~30% and improving engineering response time by ~20%.
- Designed multi-model AI orchestration and governance patterns using Bedrock Haiku and Sonnet models across cloud-hosted, hybrid, and on-prem enterprise systems, implementing observability, deployment safeguards, and production reliability practices while balancing reasoning depth, latency, and cost efficiency for AI operations.

### Deloitte – Senior Technology Strategy Lead

Chicago | Mar 2019 – Dec 2021

- Led global enterprise product data platform transformations for high-tech clients, defining technical strategy, operating models, and SAP-integrated data pipelines that enabled scalable system integrations and operational analytics across 54 plants in 11 countries.
- Owned end-to-end execution, release coordination, dependency tracking, and operational governance for enterprise transformation programs spanning cloud platforms, APIs, enterprise data systems, and production integrations, aligning engineering, IT, and manufacturing stakeholders to deliver scalable operational platforms.

### Chamberlain Group – Technical Program Manager

Chicago | Jan 2017 – Mar 2019

- Led enterprise PLM platform upgrade for 2,000+ users, coordinating multi-system integrations, release readiness, and standardized data contracts across PLM, ERP, MES systems to improve scalability and operational reliability.
- Improved data quality and release confidence by eliminating recurring cross-system discrepancies and duplicate part creation, reducing downstream ERP and manufacturing correction cycles by ~15–20% through structured data governance and process automation.

### United Technologies – Product Operations Engineer

Bengaluru | Sep 2013 – Jul 2015

- Built engineering change and product data management workflows that transformed fragmented structured and unstructured system signals into consistent, decision-ready insights, reducing ambiguity and shortening engineering decision cycles by ~25–30%.

## CORE SKILLS

- **PLATFORMS & SYSTEMS:** Cloud Platforms (GCP / AWS) | Enterprise Data & Execution Platforms | Data Platforms & Pipelines | System Integrations | APIs & Event-Driven Workflows | Workflow Automation | Platform Reliability & Distributed Systems | SQL | Analytics Platforms (Databricks AI/BI, Hex)
- **AI & DATA:** AI/ML Development Lifecycle | AI-Enabled Decision Systems | Data Quality & Validation | Analytics & Metrics | AI Governance & Readiness | Responsible AI | LLM orchestration & AI-assisted decision systems
- **PROGRAM & PRODUCT LEADERSHIP:** Technical Program Management | Platform Roadmaps | Cross-Functional Execution | Dependency & Risk Management | Stakeholder Alignment | Operating in Ambiguity
- **DELIVERY & OPERATIONS:** Large-Scale System Migrations | Production Readiness | Change Management | Cost & Efficiency Optimization | Vendor & Partner Management

## CERTIFICATIONS

Google Cloud Certified – Generative AI Leader | Google Cloud Certified – Cloud Digital Leader  
Google AI Essentials – Google | PLM Leadership Certification – CIMdata

## EDUCATION

Master of Science— University of Illinois at Chicago  
Bachelor of Engineering — Visvesvaraya Technological University