

RISHU RANJAN

Senior Manager, Data Migration & Integration | Enterprise Healthcare Interoperability Leader

FHIR R4, HL7 (V2/V3), DICOM, IHE, PACS/VNA, Enterprise Imaging, Rhapsody Integration Platform, Cloud Migrations (AWS/Azure)

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EXECUTIVE SUMMARY

Senior Healthcare Integration & Solution Architect with 14+ years of experience designing enterprise-scale **healthcare interoperability**, API integration, Enterprise Imaging, and cloud-native healthcare platforms across provider organizations and healthcare technology vendors including **Philips and Founda Health Tech**. Proven expertise architecting **FHIR R4-based** interoperability solutions, **HL7 v2** integrations, DICOM workflows, **SMART on FHIR enablement**, healthcare API ecosystems, and secure enterprise integrations. Experienced translating HIPAA, CMS interoperability requirements, and healthcare integration standards into scalable architecture patterns supporting provider, payer, and **HIE connectivity**. Skilled in healthcare cloud architecture, enterprise integration strategy, API governance, Architecture Decision Records (ADRs), and cross-functional technical leadership. Strong background collaborating with product, engineering, security, and customer teams to deliver enterprise healthcare integration solutions.

KEY COMPETENCIES & TECHNICAL EXPERTISE

Team Leadership & Program Delivery:

Leading cross-functional teams | Team mentoring & development | Performance management & KPIs | Capacity & resource planning | multi-workstream program execution | Vendor/partner relationship management | Executive stakeholder communication | Change management & adoption

Healthcare Data Migration & Integration:

Enterprise imaging data migrations | Healthcare data ingestion & transformation | HL7 v2/v3 integration | DICOM workflow architecture | FHIR R4 API-first design | Rhapsody integration platform (10+ years) | Data validation & integrity frameworks | Cutover planning & execution

Healthcare Interoperability & Standards:

FHIR R4/R5, HL7 ADT notifications, CCD/C-CDA | IHE profiles (XDS, XCA) | PACS/VNA architecture | EMR/EHR integrations | SMART on FHIR | CDS Hooks | Healthcare data exchange governance

Enterprise Imaging & Cloud Platforms:

Enterprise Imaging implementations & cloud migrations | AWS & Microsoft Azure healthcare solutions | Radiology/Cardiology/Multi-Specialty Imaging workflows | VNA strategy & deployment | HIPAA compliance & security frameworks | Scalable infrastructure design

Delivery Excellence & Operational Leadership:

Standardized delivery methodologies | Governance frameworks & quality standards | Risk management & mitigation | Agile/Scrum delivery (PMP/PMI-ACP certified) |

Implementation frameworks | Operational readiness processes | Continuous improvement initiatives

API Security

OAuth 2.0|JWT|OpenID Connect| mTLS | API Gateway | RBAC | Token-based Authentication | Secure API Design | Identity Federation Concepts

PROFESSIONAL EXPERIENCE

Senior Solution Architect & Delivery Lead |
Founda Health Tech | Jan 2024 – Present

- Supported enterprise imaging integrations across radiology, cardiology, and specialty clinical ecosystems through PACS-compatible workflow design and implementation support.
- Assisted healthcare clients with imaging workflow onboarding, integration troubleshooting, and clinical data exchange optimization across **EMR, PACS, and partner systems**.
- Supported Enterprise Imaging modernization initiatives involving digital pathology workflows, enterprise imaging repositories, DICOM interoperability, and cloud-enabled imaging ecosystems.
- Designed and validated **HL7, FHIR, and DICOM** workflows supporting imaging interoperability, scheduling, order management, and results delivery.
- Collaborated with **provider groups, technical teams**, and operational stakeholders to support new group integrations and workflow continuity
- Designed enterprise healthcare integration architecture supporting external provider connectivity using **FHIR R4 APIs**, RESTful services, HL7 v2 messaging, and cloud-native interoperability frameworks.
- Architected secure API integration patterns leveraging OAuth 2.0, SMART on FHIR, JWT authentication, API gateway policies, and role-based access controls for healthcare data exchange.
- Partnered with engineering and product teams to define reusable integration blueprints, **Architecture Decision Records (ADRs)**, API standards, and healthcare interoperability best practices.
- Led discovery workshops with provider organizations to understand interoperability requirements, clinical workflows, API integration strategies, and healthcare data exchange challenges.
- Designed scalable healthcare API architectures supporting provider onboarding, workflow automation, healthcare data ingestion, transformation, validation, and orchestration.
- Evaluated middleware, API management, and integration architecture patterns to improve scalability, resiliency, observability, and operational efficiency across enterprise healthcare platforms.
- Collaborated with security teams to ensure architectures aligned with HIPAA Security Rule, least-privilege access principles, secure API design, and enterprise compliance requirements.

- Contributed to architecture discussions around AI-enabled workflow automation, intelligent document processing, and healthcare knowledge retrieval while ensuring regulatory compliance and human oversight.

Senior Integration Architect & Program Delivery Lead |

Philips (North America) | Feb 2019 – Dec 2023

- Designed enterprise integration architectures supporting provider organizations, imaging systems, EMRs, enterprise repositories, and cloud-native healthcare platforms.
- Implemented and supported PACS, enterprise imaging, radiology, and cardiology integration solutions across hospital systems and provider organizations.
- Worked directly with radiology and cardiology operational teams to understand workflow, imaging, scheduling, and clinical data exchange requirements.
- Led technical design and implementation of Enterprise Imaging solutions across radiology, cardiology, **PACS, VNA**, and clinical imaging environments.
- Built and supported **HL7 interfaces (ADT, ORM, ORU, SIU)** for radiology/cardiology scheduling, orders, and imaging workflows.
- Led enterprise imaging solution architecture supporting radiology, cardiology, and healthcare interoperability initiatives across cloud-based healthcare ecosystems.
- Familiar with Philips iSyntax whole slide imaging architecture and interoperability considerations for enterprise imaging workflows.
- Architected **FHIR R4-enabled** interoperability solutions integrating external provider systems using REST APIs, **HL7 v2 messaging, DICOM services**, and enterprise imaging workflows.
- Defined secure healthcare integration patterns using **SMART on FHIR** concepts, OAuth 2.0, JWT-based authentication, **TLS encryption, API gateways**, and enterprise identity management.
- Led architecture reviews identifying technical risks, interoperability gaps, migration dependencies, and mitigation strategies across multiple enterprise implementation programs.
- Established reusable enterprise integration standards, API governance practices, and architecture patterns improving consistency across customer implementations.
- Partnered closely with product management, engineering, security, customer success, and implementation teams to develop integration of roadmaps and solution blueprints.

- Produced technical architecture documentation, integration specifications, workflow diagrams, and implementation guidance supporting enterprise healthcare deployments.

Senior Technical Specialist – Integration Platforms & Enterprise Imaging | *Philips (India & North America)* | Dec 2013 – Feb 2019

- Developed enterprise interoperability solutions using FHIR R4, HL7 v2, DICOM, IHE XDS/XCA, and enterprise integration platforms supporting hospital interoperability initiatives.
- Independently troubleshoot **PACS, interface, workflow**, and technical support issues while supporting end users and operational teams.
- Created technical specifications, implementation guides, and workflow documentation for imaging deployments.
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- Created technical specifications, implementation guides, and workflow documentation for imaging deployments.
- Provided advanced production **support, troubleshooting, and workflow optimization, minimizing downtime** while improving interface performance, scalability, and enterprise healthcare system effectiveness.
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- Designed scalable API-based integration patterns connecting **EMRs, PACS, VNAs, HIEs**, clinical repositories, and imaging workflows.
- Implemented healthcare data transformation, validation, routing, and orchestration using enterprise integration middleware and Rhapsody.
- Worked with healthcare interoperability standards including SMART on FHIR concepts, CDS Hooks integration patterns, and modern healthcare API architectures.

Software Engineer – PACS & Healthcare Integration Solutions | *Meddiff Technologies* | Nov 2010 – Nov 2013

Developed and implemented DICOM-based healthcare imaging solutions, including image ingestion, storage, and retrieval workflows. Built HL7 v2 integration interfaces for patients and order synchronization across hospital systems. Supported complex enterprise healthcare data exchange and analytics platform deployments.

EDUCATION & PROFESSIONAL DEVELOPMENT

Master of Business Administration (MBA) | *Boston University – Questrom School of Business* | Expected 2026

Focus: Strategy, Leadership, Digital Transformation, Healthcare Management

Bachelor of Engineering (Computer Science) | *Rajasthan Technical University, India*

CERTIFICATIONS & CREDENTIALS

AWS Certified Solutions Architect – Associate

Project Management Professional (PMP) – Project Management Institute

PMI Agile Certified Practitioner (PMI-ACP)

HL7 V2 Control Specialist

Microsoft Azure Solutions Architect Expert (In Progress)

PROFESSIONAL AFFILIATIONS & MEMBERSHIPS

HIMSS (Healthcare Information & Management Systems Society) – Active Member

American College of Healthcare Executives (ACHE) – Associate Member