

MIHIR PATEL

Healthcare IT Leader & Integration Architect

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Healthcare IT leader with a **decade of experience** driving interoperability, integration, and digital transformation across healthcare organizations. Skilled in **HL7, CDA/CCDA, FHIR, and X12**, with deep expertise in integration engines like **Rhapsody, Mirth Connect, and InterSystems HealthShare**. Proven track record of managing high-performing engineering teams, leading multi-workstream projects, and delivering secure, scalable healthcare solutions in compliance with **HIPAA** and industry standards.

PROFESSIONAL EXPERIENCE

Manager, Integration Engineering *Cync Health*

📍 Omaha, NE 📅 December 2024 – Present

- Led enterprise-wide integration initiatives across multiple healthcare platforms, improving interoperability, data quality, and system uptime by **25%**
- Orchestrated large-scale data ingestion and transformation pipelines, streamlining ETL workflows and ensuring compliance with **HL7, CCD, and FHIR** standards
- Designed and implemented a **FHIR-based Clinical Data Repository (CDR)** to consolidate patient demographics, encounters, and lab results across multiple EHR systems
- Developed **FHIR APIs (R4 standard)** for patient, observation, and medication resources, enabling standardized data access for providers and third-party applications
- Partnered with state health agencies to automate data feeds for COVID-19, immunization, and syndromic surveillance registries
- Drove architecture modernization efforts transitioning legacy HL7v2 integrations into FHIR resources for scalability and maintainability

Manager, Sr. Integration Engineer (Public Health) *Altarum Institute*

📍 Ann Arbor, MI 📅 June 2023 – December 2024

- Led and mentored an Integration Engineering team, boosting collaboration by **20%** and providing strategic guidance on best practices
- Streamlined integration processes, cutting delivery time by **25%**, and ensured alignment across cross-functional teams
- Designed and supported healthcare integrations using **Mirth and Rhapsody**, ensuring reliable data exchange and maximizing system uptime
- Implemented **AWS-based CI/CD pipelines (Jenkins/GitLab)** to automate deployment and monitoring of Mirth/Rhapsody integrations
- Built **Java JMS (HornetQ)** listeners/consumers for enterprise integrations and developed OAuth-secured FHIR API solutions
- Advised on **Kafka integration strategies** for producers and consumers to improve message-driven workflows

Sr. Integration Engineer (Public Health) *Altarum Institute*

📍 Ann Arbor, MI 📅 December 2021 – June 2023

- Implemented interoperability standards (**HL7, CDA/CCDA, FHIR, X12, ADT, ORU**) to enable seamless healthcare data exchange
- Developed and maintained integration code across design, testing, and go-live phases of diverse projects
- Partnered with NVSS to certify and develop **FHIR VRDR death reporting solutions** for the State of Michigan
- Designed and orchestrated the end-to-end integration flow using Rhapsody Integration Engine and AWS S3 for the Altarum-led **MDROXchange** project in **CA – Orange County**, enabling automated file ingestion from S3 buckets into the system's processing pipelines.
- Built **HL7 MMG** reporting solutions for CDC's NNDSS via **PHINMS** and the **APHL AIMS** platform
- Developed end-to-end eCR solutions using Rhapsody for APHL stakeholders, enabling automated case reporting of conditions from EHRs to public-health agencies
- Built **HornetQ and Kafka** publishers/consumers in multiple languages to improve interoperability across systems
- Conducted code reviews to enforce standards, improve security, and maintain best practices

Integration Engineer

Ready Computing Inc.

 New York, NY  October 2019 – December 2021

- Managed end-to-end data migration, transformation, and modeling using **InterSystems HealthShare** for Department of Veterans Affairs
- Migrated healthcare interfaces to **AWS-hosted environments**, creating automation scripts for provisioning, deployment, and testing pipelines
- Conducted detailed Vista application connection analysis, migrating HL7 interfaces to the new Health Connect server
- Implemented and migrated **HL7 v2/v3, XML, and CDA/CCD/CCDA** interfaces for Ascension Healthcare
- Led data management initiatives for The Health Collaborative, delivering ETL workflows across DB2, flat files, and other data sources

Sr. Interface Engineer

Accurate Diagnostic Labs, Inc.

 South Plainfield, NJ  March 2015 – October 2019

- Designed, tested, and implemented HL7 interfaces to enable seamless data exchange across **25-30 EMR/EHR vendors**, hospitals, and health plans
- Served as **Project Manager**, ensuring data transmission standards were met across multiple stakeholders
- Built secure data links using VPN, FTP, SFTP, and Integration Engines (**Mirth Connect, Orchard Harvest & Copia**)
- Ensured adherence to **HIPAA, SNOMED, LOINC, CPT, ICD-9/10, and RxNorm** standards
- Delivered weekly IT/EMR support for **300+ employees**, resolving integration and data issues
- Produced 5-8 operational reports weekly, improving system efficiency and reducing transmission errors

TECHNICAL SKILLS

Integration Engines

Rhapsody EDI Engine • Mirth Connect • InterSystems HealthShare • Qvera Interface Engine • BridgeLink

Healthcare Standards

HL7 v2/v3 • FHIR • CDA/CCDA • X12 (270/271/267/277/278) • eICR/eCR • SNOMED • LOINC • ICD-9/ICD-10 • RxNorm

Cloud & DevOps

AWS • Azure • GCP • CI/CD Pipelines • Docker • Virtualization • Linux/Unix • Windows OS

Programming Languages

Java • Python • JavaScript • SQL • XSLT • JSON/XML

Messaging & APIs

RabbitMQ • Kafka • HornetQ • REST/SOAP • OAuth/JWT • HTTP/HTTPS/SSL • Postman/SoapUI

Databases

SQL Server • PostgreSQL • MongoDB (NoSQL) • Oracle DB

Tools & Platforms

JIRA/DevOps • Confluence • Microsoft Office • Visio • Lucidchart • Active Directory • VPN/FTP/SFTP

Leadership & Management

Team Leadership • Project Management • Agile Methodologies • Operations Management • Process Optimization • Regulatory Compliance (HIPAA)

CERTIFICATIONS

- 🏆 HL7 FHIR Fundamental Certification, Ann Arbor, MI – 2024
- 🏆 Rhapsody 6.8 Associate Certification, Boston, MA – 2023
- 🏆 Mirth Connect, Nextgen Healthcare, Atlanta, GA – 2021
- 🏆 HealthShare Health Connect HL7 Interface Specialist, InterSystems, Boston MA – 2020
- 🏆 Data Intelligence Tool - Tibco/IBI ETL Certification, New York, NY – 2020

EDUCATION

B.S., Information Technology Network and Security

New Jersey Institute of Technology, Newark, NJ

A.S., Computer Science

Middlesex County College, Edison, NJ