



Systems Integration Engineer

Position Overview:

The Systems Integration Engineer will be responsible for the analysis, implementation, and improvements of the HIE interfaces for the CORHIO Health Information Exchange and development of HIE tools. The role will drive the successful delivery and manageability of services related to the rollout of the Colorado Health Information Exchange to clients through all of the defined phases of the project life cycle. The Systems Integration Engineer will report to the VP of Technical Project Management and interact with other CORHIO teams and clients.

Responsibilities:

- Strong ability to understand technical and clinical workflows of health information systems and the impacts outbound HL7 messaging has to current and future CORHIO HIE services and products.
- Develop interfaces and customizations for delivery that are interoperable with diverse systems.
- Analyze interface specifications and HL7 messages/CCDA documents for implementation projects
- Strategically collect, retain, and normalize meaningful data from CORHIO participants for current and future use.
- Troubleshoot and manage technical issues during Data Analysis, Build, QA, UAT testing and post production support with participants and vendors.
- Identify and negotiate with participant or vendor to implement appropriate solution required to remediate any gaps in the interface specifications and clinical data (HL7 messages, CCDA documents, Reports) while adhering to CORHIO standards.
- Provide reliable and best practice technical solutions to complex problems.
- Implement system changes and support participant upgrades that impact the HIE.
- Testing and validation of interfaces and tools developed by CORHIO or CORHIO vendors and provide recommendations for improvements.
- Assess new vendors' technical capabilities and ability to integrate with CORHIO by supporting the CORHIO Outreach Team in determining vendor readiness to connect to the CORHIO HIE.
- Serve as a Subject Matter Expert on Vendor/CORHIO platform for other CORHIO departments.
- Execute testing and on test plans for any project type as needed.
- Work closely with the Implementation and Product Development teams to support technical efforts throughout the life of a project.

- Develop, maintain, and continually improve our internal custom tools and solutions using Agile methodologies to address automation and integration needs of the operational and business units of CORHIO.
- Work with other platform engineers and architects to design, build, and maintain highly scalable production systems and services that support all business units in CORHIO.
- Provide technical feedback to other engineers through design reviews, and collaborative problem-solving sessions.
- Manage competing projects and initiatives of different types in parallel.
- Effectively self-manage through difficult and demanding situations with clear and timely decision making and incisive and creative problem solving.
- Learn new project types and skills to implement new CORHIO products.
- Learn and provide back-up support to CORHIO Technical Project Managers, Integration Developers and Implementation QA Engineers.

Technical Skills/Qualifications:

- BS degree with a concentration in Information Technology, Computer Science, Computer Engineering or related technical discipline, or minimum 4+ years IT experience
- 4+ years HL7 experience (HL7 Standards a plus)
- 1+ year Agile experience
- 1+ year XML experience (CCDA) (CCDA Standards a plus)
- 1+ year SQL experience (Any flavor)
- Experience in design and development of interfaces and/or interoperability solutions for healthcare IT products, preferably HIE or Electronic Health Record Systems
- Experience with healthcare systems and technology
- Excellent analytical, design and troubleshooting skills with a strong commitment to quality.
- Excellent skills in research, analysis and testing.
- Excels at working in a rapidly changing environment where processes may not always be defined. Not afraid to learn as you go and work autonomously with little direction at times.
- Quickly comprehends the basic concepts and works to sharpen their skills and knowledge in defined areas.
- Advanced skills in understanding data workflows inside of systems and diagnosing root cause or points of failure.
- Knowledge with interface engines like Mirth, Nexus, Connexion, or equivalent.
- Fundamental working knowledge of networking and connectivity types (i.e. VPN, TCP/IP, SFTP, Web Services, API, HISP, iHE profiles)

- Proficiency with MS Office suite, MS Visio or other diagramming tool, HL7Spy or other HL7 applications, Notepad++ or other XML applications.
- Experience in developing Technical Solution or Technical Specification documents.
- Curiosity to understand and leverage new tools and technologies.
- Communication skills to include exemplary written and verbal communication. Must be able to clearly communicate technical information to non-technical business users and customers.
- Client and team-focused.
- Adaptability in a fast-changing environment without sacrificing quality.
- Proven aptitude for seeking creative solutions to multifaceted problems.
- Ability to establish and meet deadlines in a fast-paced environment and work on many projects at the same time.

Preferred Skills/Qualifications

- JavaScript
- Salesforce or other CRM development
- Object Identifiers (OIDs) and branching methodology.