## **UW HEALTH JOB DESCRIPTION**

Integration Engineer III							
Job Code:         330033         FLSA Status:         Exempt         Mgt. Approval:         B. Larkworthy         Date:         June 2024							
Department: Information Services       HR       Approval: M. Grayson       Date: June 2024         JOB SUMMARY       Date: June 2024							
The Integration Engineer III takes a leading role in the design, implementation, and management of sophisticated system integrations, ensuring they are secure, reliable, resilient, and maintainable. They leverage an extensive range of tools, technologies, and methodologies, to enable seamless data exchange among diverse systems that directly impact patient care and operational efficiency. This role requires an expert understanding of integration architecture, software engineering, networking principles, and cloud technologies to develop strategies for highly available and real time data exchange. The Integration Engineer III navigates highly complex challenges, often necessitating inventive solutions and a forward-thinking mindset. They are expected to resolve technical issues autonomously, leveraging their expertise and coordinating others when needed. This role involves mentoring other staff members, guiding them through complex problem-solving processes, and sharing advanced knowledge and best practices to enhance the team's overall capabilities and performance. The Integration Engineer III is responsible for in-depth analyses and defining complex integration requirements, developing and implementing robust integration solutions, and overseeing the lifecycle of multiple concurrent integration projects. This includes							
assessing system interactions, designing scalable integration platforms, and addressing intricate integration challenges. The Integration Engineer III partners with cybersecurity experts to create integration security standards and ensures security considerations are incorporated into the standard integration development processes so that all integrations adhere to security standards to protect sensitive information. This role leads the proactive monitoring and optimization of the integration environment, establishing high availability and performance standards. The Integration Engineer III must excel in communication with both internal and external stakeholders, steering integration initiatives to align with the organization's broader goals. The Integration Engineer III collaborates with clinical and administrative staff, external software vendors, and healthcare organizations to design, establish, and enhance effective integrations. The work is pivotal in connecting diverse healthcare systems, facilitating efficient data exchange, and enabling improved clinical and business outcomes. As a team and project leader, the Integration Engineer III delivers top-tier integration solutions across multiple domains.							
MAJOR RESPONSIBILITIES							
<ul> <li>Lead the design, implementation, and management of complex system integrations across diverse systems and applications, ensuring high availability, security, and performance.</li> <li>Oversee the integration engine and API (Application Programming Interface) management platform, managing their configuration, maintenance, and optimization to ensure efficient and reliable operation of integration processes and API lifecycle management.</li> <li>Design an extensible and intuitive API structure, ensuring they represent data effectively and facilitate easy integration.</li> <li>Develop and review code adhering to software engineering principles, methodologies, and best practices.</li> <li>Analyze complex integration requirements, translating business needs into scalable and maintainable integration solutions, overseeing the entire lifecycle of integration projects.</li> </ul>							
<ul> <li>Design and implement processes to ensure all integrations adhere to security standards, regulatory compliance, and accreditation requirements.</li> <li>Establish and lead thorough testing and quality assurance processes for integration solutions, defining testing scenarios, and developing test plans and cases to ensure quality and reliability.</li> <li>Design, implement, and enhance integration platforms and processes, monitoring performance and implementing improvements to meet evolving business needs.</li> <li>Provide technical leadership in troubleshooting and resolving intricate integration issues.</li> </ul>							
<ul> <li>Facilitate effective collaboration with internal and external stakeholders.</li> <li>Develop, establish standards, and maintain comprehensive documentation for integration systems, including system specifications, modifications, operational guidelines.</li> <li>Lead and contribute to major integration projects, coordinating with project management and cross-functional teams necessary to ensure project success.</li> <li>Formally mentor other staff and serve as a team expert in integration engineering, sharing expertise and fostering skill development.</li> <li>Troubleshoot technical issues, identify the cause, determine possible resolutions, and remediate issues in existing integrations.</li> <li>Participate in a 24x7x365 on-call rotation to support applications, promptly responding to incident notifications, and escalating them when necessary.</li> </ul>							
ALL DUTIES AND REQUIREMENTS MUST BE PERFORMED CONSISTENT WITH THE UW HEALTH							

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JOB REQUIREMENTS							
Education	Minimum	Bachelor's degree in Computer Science, Software Engineering, Information Systems,					
		or related field Four (4) years of relevant experience may be considered in lieu of degree					
	Preferred	Master's degree in Computer Science, Software Engineering, Information Systems or					
		related field					
Work Experience	Minimum Preferred	<ul> <li>Demonstrated success designing and implementing extensible and reusable integrations between applications</li> <li>Demonstrated success managing integration platforms and integration life cycles</li> <li>Demonstrated success implementing and leveraging modern integration technologies, effectively addressing challenges related to data consistency, authentication, security, and error handling</li> <li>Demonstrated success identifying and implementing improvements in platforms, standards, and processes leading to increased operational excellence, elimination of waste, and reduced technical debt</li> <li>Demonstrated success managing and executing medium to large scale projects</li> <li>Seven (7) years of experience in integration engineering, including system integration design, development, and management</li> <li>Demonstrated success working on or leading initiatives that use agile methods</li> <li>Demonstrated experience developing integrations using healthcare data standards such as HL7, FHIR, and X12</li> <li>Demonstrated experience designing and implementing APIs using REST and/or GraphQL with a focus on usability and effective data representation</li> <li>Experience managing cloud-native services and features to implement integrations in Microsoft Azure or cloud platforms</li> <li>Experience using DevOps tools and practices, including version control, automated build, testing, continuous integration, and continuous deployment processes WC1 [LBR2]</li> </ul>					
Licenses & Certifications	Minimum	Experience providing on-call support for critical integration systems in a 24x7x365 environment  None					
	Preferred	<ul> <li>Certified Cloverleaf Developer</li> <li>Epic Interface Administrator (Bridges) or other Epic certifications</li> <li>Microsoft Azure Administration, Developer, DevOps, or related certifications</li> <li>ServiceNow Administration, Developer, or related certifications</li> <li>Professional Scrum Master, Developer, Product Owner, or related certifications</li> <li>ITIL Foundation or related certifications</li> <li>PMP</li> </ul>					
Required Skills, Knowledge, and Abilities		Information Services (IS) Core Competencies:         Intermediate competency in the following:         • Communication         • Critical Thinking         • Effective Team Member         • Agility         • Mentor and Teach         • Leadership         • Technical Leadership         • Leading without Direct Authority         • Leading Highly Empowered, Self-Directed Teams         • Lean Management         Emerging competency in the following:         • Organizational Awareness/Understanding         • Demonstrates Business & Financial Acumen         • Maintains Strategic Orientation					
		Advanced competency in at least two (2) and intermediate competency in the remaining of the following: <ul> <li>System Analysis &amp; Design</li> </ul>					

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Indi	<ul> <li>Technology</li> <li>Network infr</li> <li>Project Man</li> <li>Other Knowledge</li> <li>Knowledge of Understandi XML</li> <li>Ability to lea</li> <li>Ability to drive</li> <li>Exceptional problems</li> <li>Demonstrate knowledge a</li> <li>Demonstrate</li> <li>Strong logica</li> <li>Outstanding abilities with</li> <li>Ability to syr</li> </ul>	sting Improvement Awareness & Strategic F astructure components a agement <u>e, Skills, &amp; Abilities:</u> of programming language ing of common data exch d as a member of an agi ve cross-functional areas ability to think abstractly ed ability and desire to quand skills ed ability to adapt to new al thought process for de analytical, critical thinkin attention to detail othesize feedback and go	nd concepts es such as C#, Python, and ange formats such as HL le development team including leaders and sta and apply these concepts uickly learn and apply new and changing technologi sign and analysis ig, problem-solving, and of beyond specific improve	7, JSON, and akeholders s to concrete v technical es organizational ement suggestions
may	be made available for individuals with disabilities to perform sical Demand Level			Constant 67%-100% of the
X	<b>Sedentary:</b> Ability to lift up to 10 pounds maximum and occasionally lifting and/or carrying such articles as dockets, ledgers and small tools. Although a sedentary job is defined as one, which involves sitting, a certain amount of walking and standing is often necessary in carrying out job duties. Jobs are sedentary if walking and standing are required only occasionally and other sedentary criteria are met.	Up to 10#	Negligible	time Negligible
	<b>Light:</b> Ability to lift up to 20 pounds maximum with frequent lifting and/or carrying of objects weighing up to 10 pounds. Even though the weight lifted may only be a negligible amount, a job is in this category when it requires walking or standing to a significant degree.	Up to 20#	Up to 10# or requires significant walking or standing, or requires pushing/pulling of arm/leg controls	<b>Negligible</b> or constant push/pull of items of negligible weight
	<b>Medium:</b> Ability to lift up to 50 pounds maximum with frequent lifting/and or carrying objects weighing up to 25 pounds.	20-50#	10-25#	Negligible-10#
	<b>Heavy:</b> Ability to lift up to 100 pounds maximum with frequent lifting and/or carrying objects weighing up to 50 pounds.	50-100#	25-50#	10-20#
	<b>Very Heavy:</b> Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	Over 100#	Over 50#	Over 20#
	er - list any other physical requirements or bona fide upational qualifications not indicated above:			

Note: The purpose of this document is to describe the general nature and level of work performed by personnel so classified; it is not intended to serve as an inclusive list of all responsibilities associated with this position.