

UW HEALTH JOB DESCRIPTION

Integration Engineer II

Job Code: 330034	FLSA Status: Exempt	Mgt. Approval: B. Larkworthy	Date: June 2024
Department: Information Services		HR Approval: M. Grayson	Date: June 2024

JOB SUMMARY

The Integration Engineer II is responsible for designing, implementing, and managing robust system integrations, ensuring they are secure, reliable, resilient, and maintainable. They utilize a wide array of tools, technologies, and methodologies to facilitate seamless data flow between disparate systems that directly impact patient care and operational efficiency. This role requires a strong 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 II navigates moderate to high complexity challenges, often requiring innovative solutions and a strategic mindset. They are expected to independently resolve technical issues while drawing on the expertise of others when necessary.

The Integration Engineer II analyzes and defines integration needs, develops integration solutions, and manages the entire lifecycle of integration projects. This includes assessing system interactions, designing scalable integration platforms, and troubleshooting and resolving complex integration challenges. The Integration Engineer II ensures security considerations are incorporated into the integration development process and all integrations adhere to security standards to protect sensitive information. This role requires a proactive approach to monitoring and optimizing the integration environment, ensuring high availability and performance standards are met. The Integration Engineer II must communicate effectively with both internal and external stakeholders, aligning integration initiatives with the organization's broader goals.

The Integration Engineer II collaborates with clinical and administrative staff, external software vendors, and healthcare organizations to establish and maintain effective integrations. The work is vital in connecting diverse healthcare systems, facilitating efficient data exchange, and enabling improved clinical and business outcomes. As a key team and project contributor, the Integration Engineer II delivers high-quality integration solutions within established domains.

MAJOR RESPONSIBILITIES

- Design, implement, and manage system integrations across diverse systems and applications, ensuring high availability, security, and performance.
- Manage the integration engine and API (Application Programming Interface) management platform, performing their configuration, maintenance, and optimization to ensure efficient and reliable operation of integration processes and API lifecycle management.
- Design APIs with an intuitive structure, ensuring they represent data effectively and facilitate easy integration.
- Write code that is consistent with software engineering principles, methodologies, and best practices.
- Analyze integration requirements, translating business needs into scalable and maintainable integration solutions, overseeing the entire lifecycle of integration projects.
- Ensure all integration processes adhere to security standards, regulatory compliance, and accreditation requirements.
- Conduct thorough testing and quality assurance for integration solutions, defining testing scenarios, and developing test plans and cases to ensure quality and reliability.
- Maintain and optimize integration platforms and processes, monitoring performance and implementing improvements to meet evolving business needs.
- Provide technical leadership in troubleshooting and resolving complex integration issues.
- Collaborate effectively with internal and external stakeholders.
- Maintain comprehensive documentation for integration systems, including system specifications, modifications, operational guidelines.
- Lead and contribute to integration projects, coordinating with project management and technical teams.
- Informally mentor other staff in integration engineering.
- Troubleshoot technical issues, identify the cause, determine possible resolutions, and remediate issues in existing integrations.
- Participate in a 24x7x365 on-call rotation to support applications, promptly responding to incident notifications, and escalating them when necessary.

ALL DUTIES AND REQUIREMENTS MUST BE PERFORMED CONSISTENT WITH THE UW HEALTH PERFORMANCE STANDARDS.

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

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Work Experience	Minimum	<ul style="list-style-type: none"> • Demonstrated success designing and implementing extensible and reusable integrations between applications • Demonstrated success managing integration platforms and integration life cycles
	Preferred	<ul style="list-style-type: none"> • Three (3) years of experience in integration engineering, including system integration design, development, and management • Experience identifying and implementing improvements in platforms, standards, and processes leading to increased operational excellence, elimination of waste, and reduced technical debt • Experience working on initiatives that use agile methods • Demonstrated experience developing integrations using healthcare data standards such as HL7, FHIR, and X12 • Experience designing and implementing APIs using REST and/or GraphQL with a focus on usability and effective data representation • Experience managing and optimizing integration platforms in Microsoft Azure or cloud platforms • Experience using cloud-native services and features to implement integrations in Microsoft Azure or other cloud platforms • Experience implementing API security mechanisms • Experience using DevOps tools and practices, including version control, automated build, testing, continuous integration, and continuous deployment processes[WC1][LBR2] • Experience providing on-call support for critical integration systems in a 24x7x365 environment
Licenses & Certifications	Minimum	None
	Preferred	<ul style="list-style-type: none"> • Certified Cloverleaf Developer • Epic Interface Administrator (Bridges) or other Epic certifications • Microsoft Azure Administration, Developer, DevOps, or related certifications • ServiceNow Administration, Developer, or related certifications • Professional Scrum Master, Developer, Product Owner, or related certifications • ITIL Foundation or related certifications • PMP
Required Skills, Knowledge, and Abilities		<p><u>Information Services (IS) Core Competencies:</u> Intermediate competency in the following:</p> <ul style="list-style-type: none"> • Communication • Critical Thinking • Effective Team Member • Agility <p>Emerging competency in the following:</p> <ul style="list-style-type: none"> • Mentor and Teach • Leadership • Technical Leadership • Leading without Direct Authority • Leading Highly Empowered, Self-Directed Teams • Lean Management <p><u>Position Specific Competencies</u> Intermediate competency in the following:</p> <ul style="list-style-type: none"> • System Analysis & Design • Data Flow Architecture • Software Testing • Continuous Improvement <p>Emerging competency in the following:</p> <ul style="list-style-type: none"> • Technology Awareness & Strategic Planning • Network infrastructure components and concepts • Project Management <p><u>Other Knowledge, Skills, & Abilities:</u></p> <ul style="list-style-type: none"> • Knowledge of programming languages such as C#, Python, and JavaScript • Understanding of common data exchange formats such as HL7, JSON, and XML • Ability to work as a member of an agile development team

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	<ul style="list-style-type: none"> Ability to engage in cross-functional interactions Strong ability to think abstractly and apply these concepts to concrete problems Demonstrated ability and desire to quickly learn and apply new technical knowledge and skills Ability to adapt to new and changing technologies Strong logical thought process for design and analysis Outstanding analytical, critical thinking, problem-solving, and organizational abilities with attention to detail Ability to process exploratory feedback and use it constructively 			
PHYSICAL REQUIREMENTS				
Indicate the appropriate physical requirements of this job in the course of a shift. <i>Note: reasonable accommodations may be made available for individuals with disabilities to perform the essential functions of this position.</i>				
Physical Demand Level		Occasional Up to 33% of the time	Frequent 34%-66% of the time	Constant 67%-100% of the time
X	Sedentary: Ability to lift up to 10 pounds maximum and occasionally lifting and/or carrying such articles as docket, 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	Negligible
	Light: 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	Negligible or constant push/pull of items of negligible weight
	Medium: 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#
	Heavy: 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#
	Very Heavy: Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	Over 100#	Over 50#	Over 20#
Other - list any other physical requirements or bona fide occupational 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.