UW HEALTH JOB DESCRIPTION

Data Engineer I								
Job Code: 3400		Mgt. Approval: J. Long	Date: February 2022					
Department: Er	nterprise Analytics	HR Approval: N. Lazaro	Date: February 2022					
JOB SUMMARY The Data Engineer I sits at the intersection of software engineering and data warehousing. The Data Engineer I is responsible for the design, development and delivery of data pipelines and value-added data assets across the UW Health data ecosystem, leveraging a variety of data engineering and data warehousing methodologies and disciplines. With direction and occasional assistance, the Data Engineer I primarily designs, builds and maintains these data assets utilizing cloud-based technologies such as Azure and Databricks. Emphasizing agility, partnership, and cross-functional teamwork, this includes executing initiatives throughout the product lifecycle. The Data Engineer I works closely with data scientists, machine learning engineers, analytic consultants, and other colleagues to build or enhance robust systems with embedded artificial intelligence and data science.								
 The individual will automate and perform data management processes across the data ecosystem which includes: Ingestion of data from a multitude of source systems Contributing to modeled and analytic data assets such as data marts that facilitate delivery of an analytic solution and/or the release of data to external entities Pursuing the automation of data management processes whenever possible to improve performance, reliability, and quality Overseeing aspects of repetitive data management activities (including obtaining, moving, copying, validating, manipulating, and merging data) from a variety of data sources Delivering datasets to both internal and external customers of UW Health Supporting manual processes where automation cannot be achieved 								
Data Engineer I is a valued contributor within UW Health IS. The Data Engineer I performs prescriptive work in a high-quality fashion while building their data engineering and other competencies. The Data Engineer I may work independently on prescriptive tasks or with assistance on more complex tasks from other team members.								
The Data Engine partners.	er I works closely with employees and leaders	across UW Health, the UW School of	f Medicine and Public Health, and our					
	MAJOR RI	ESPONSIBILITIES						
	Solutions successful delivery to support strategic plannin UW Health goals. Leverage knowledge and skill with a variety of techniques, tools, and platforms to transform I Design, create, test, deploy and maintain data and other purpose-built data stores. Ensure da	data engineering, DataOps, and dat arge quantities of data from multiple pipelines that deliver curated, value	ta warehousing methodologies, sources. -added data assets such as data marts					
0 0 0	Utilize cloud-native and third-party capabilities Design, develop, implement and enhance solu Identify and develop new ways of expanding a as improvements in performance, run time an Perform process steps where automation can	especially within Azure and Databrid tions that automate current manual and leveraging the existing processes d improved data quality	cks processes to the fullest extent possible					
0	Monitor and support automated processes an Oversee the submission and receipt of datase		nt they fail					
0	Use knowledge of healthcare industry, market solution design and development to execute h Adhere to the Software Development Life Cyc participating in planning sessions, collecting a transformations, aggregations, and other data test plans, performing unit testing, participatin production support.	environment, and clinical and busine igh-quality solutions to clear problem le framework and governance proces nd documenting requirements, apply manipulations, developing data pipe	ns in an established problem space. sses including, but not limited to: ing design patterns, define lines, creating documentation, developing					
0 0 0	Independently (with minimal oversight) develo operations leaders that include guidance for o Ensure all deliverables include the necessary data security, data sensitivity and data confide Participate in an on-call rotation.	ptimizing use of analytic capabilities controls and compliance standards (and deliverables.					

Improve Processes and Standards

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- Participate in improvement teams and projects within Enterprise Analytics and IS.
- Contribute to the development and delivery of training relevant to area of expertise.

Effective Team Member

- Collaborate with colleagues to drive continuous improvement within UW Health IS.
- Consistently demonstrate a very high level of teamwork, partnership and collaboration.
- Consistently demonstrate a very high level of personal accountability and lead by example in following policies and procedures.

Leadership

• Hold team-level responsibilities and may lead the team for small to medium-scale projects

Technical Leadership

• Develop increasing proficiency within data engineering and additional analytic competencies with a concentration on cloud-based and Epic Cogito technologies. Successfully completes ongoing technical training.

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

JOB REQUIREMENTS						
Education	Minimum	Bachelor's Degree in Healthcare, Information Systems, Computer Science, Engineering, Business, Data Science or related field. (Four years relevant work experience may be considered in lieu of educational requirement)				
	Preferred	Master's Degree in Healthcare, Information Systems, Computer Science, Engineering, Business, Data Science or related field.				
Work Experience	Minimum	None				
	Preferred	 One (1) year of experience with cloud-based data warehousing and data transformation technologies (e.g. Azure, AWS, Databricks, Informatica, etc) or Epic Cogito technologies (e.g. Epic Clarity, Epic Caboodle) 				
Licenses & Certifications	Minimum	None				
	Preferred	 Epic certifications in Cogito or other subject area Relevant certifications related to data warehousing concepts and technologies, ETL development, or other pertinent areas of analytics. Relevant certifications to agile methodologies, ITIL, process improvement, lean management, or other related activities. 				
Required Skills, Knowledge, and Abilities		Information Services (IS) Core Competencies: Emerging proficiency in the following: communication effective team member critical thinking mentoring and teaching technical leadership of applicable products or platforms leading without direct authority leading highly empowered, self-directed teams including cross-functional teams applying lean management tools applying agile methodologies Position Specific Competencies: Emerging proficiency in at least 3 competencies such as: Analytics Architecture Big Data Data Modeling Data Querying Data Stewardship & Curation Data to Information to Action Enterprise Automation				

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	 Enterprise Security, Privacy, & Info Sharing ETL Metadata Software Development Lifecycle (SDLC) Testing / Software Testing / QA Web Services Other Required Skills, Knowledge, Abilities: Delivering Analytics Solutions Demonstrated ability to initiate and follow through on low to medium complexity projects, manage multiple tasks, and meet deadlines Demonstrates professional maturity surrounding data access, data security, data sensitivity and data confidentiality 						
	PH	HYSICAI	L REQUIREMENT	'S			
	cate the appropriate physical requirement				e accommodations may be		
made available for individuals with disabilities to perform the esse 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 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	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 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 fr lifting and/or carrying objects weighing over 50 pound	requent	Over 100#	Over 50#	Over 20#		
	any other physical requirements or bona fide pational qualifications:)					

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.