UW HEALTH JOB DESCRIPTION

Software Quality Assurance Engineer					
Job Code:	FLSA Status: Exempt	Mgt. Approval: J. Ritthaler	Date: January 2024		
Department: Marketing & Communications		HR Approval: M. Grayson	Date: January 2024		

JOB SUMMARY

The Software Quality Assurance Engineer is a pivotal contributor to the development and execution of sophisticated test plans and test cases for hardware and software platforms. This role enhances software development and testing procedures through strate gic tool creation and provides strong support within the quality assurance (QA) team.

The Software QA Engineer estimates test efforts, analyzes and communicates test results, completes meticulous defect tracking, and is proactively involved in daily QA activities. The Software QA Engineer excels in designing and implementing advanced automated testing frameworks, tools, and scripts, systematically streamlining repetitive tasks.

Thorough regression testing is pivotal, as the focus is on meticulously identifying, monitoring, and tracking software defects, ensuring expedient and accurate reporting to stakeholders. Careful attention to detail and analytical skills enables thorough examination of test results, precise defect isolation, and collaborative problem-solving with software engineers to create effective solutions.

The Software QA Engineer demonstrates expertise of methodologies and principles for web-based technologies, including the internet, extranet, and intranet for UW Health. In scenarios with limited precedents, this role exhibits autonomy, leveraging judgment to innovate solutions.

The Software Quality Assurance Engineer fosters collaboration with cross-functional teams such as Marketing Technology, Digital Marketing, Communications, UW Health Administration, and Information Systems to drive improvement. Effective communication with stakeholders ensures alignment with objectives and the overarching goals of the department.

MAJOR RESPONSIBILITIES

- Lead the development and execution of the QA strategy, ensuring its effective implementation.
- Lead and drive the documentation and enhancement of QA processes and procedures to elevate quality practices for optimal product delivery.
- Design and implement advanced test plans, test scripts, and methodologies to ensure thorough software/system compliance.
- Establish and refine standards for software quality assurance, taking ownership of software test plans and cases.
- Champion the creation of top-tier automation solutions for regression and feature testing.
- Oversee and execute testing for web applications, ensuring high-quality standards are met.
- · Document and communicate testing results meticulously, aligning with test plans and overall project goals.
- Collaborate closely with software engineers to integrate defect prevention throughout the development lifecycle.
- Expertly analyze defects and test outcomes, proficiently tracing the root causes of failures.
- Lead the identification of opportunities for test process enhancement using analytical insights and metrics.
- Mentor and educate colleagues, sharing QA knowledge and offering guidance on process-related queries.
- Support in fostering a culture of best practices and continuous improvement.
- Ensure project schedules are adhered to and work is completed within set timelines.
- Take a proactive role in daily stand-up meetings, providing valuable insights to the team.
- Oversee the smooth movement of applications from testing to production environments.
- Stay current with changes in software applications by actively participating in knowledge-sharing sessions.
- Provide on-call support, quickly addressing critical failures, and coordinating with the team to manage escalations effectively.
- Develop and execute plans for in-depth user education, empowering them to leverage advanced features and improvements in existing applications.
- Collaborate closely with development teams to prioritize and implement system enhancements and bug fixes.
- Stay updated on emerging technologies and trends to influence the continuous improvement of application support practices.
- Lead and facilitate regular collaboration between the Digital Marketing team and UW Health Information Systems staff, ensuring seamless integration of additional software and web applications with specified requirements.
- Participate in strategic discussions and decision-making processes related to software integration and vendor relationships.

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

JOB REQUIREMENTS				
Education	Minimum	Bachelor's degree in Software Engineering, Computer Science, or related field		

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	Preferred	Master's degree	in Software Engineering	, Computer Science, or	related field
Work Experience	Minimum	Seven (7) or more years of experience in a progressively responsible position with web development and/or information systems, demonstrating accelerated and exceptional performance.			
	Preferred	 Advanced p Knowledge of Familiarity w Knowledge of Experience of Frameworks Experience of Frameworks Expertise in Advanced point Proficiency in Expertise in Comprehens Advanced un 	roficiency in template en of version control syster with continuous integration of database systems like with web server technologistic Groovy, Grails. CSS preprocessors like roficiency in IDEs such a fin build tools like Gradle working with MVC applications of Applications of Applications of the control	ms such as Git. on tools like Jenkins or MySQL and MS SQL Sogies like Apache, Tom SASS and LESS. as IntelliJ IDEA and VS and Maven. cation frameworks, suc	GitOps. erver. cat, and application Code. h as Spring. iques.
Licenses &	Minimum	None			
Required Skills, Knowledge, and Abilities Required Skills, Knowledge, and Abilities Expert tech (HTML, CSS Expert known as scripting Extensive enterpolar		rpersonal skills to lead teamwork and ensure exceptional customer. anage multiple complex tasks with exceptional efficiency. motivated, excelling in both independent and team-oriented ints. gment and adaptability to navigate demanding situations and frequent			
ludiante the annua			REQUIREMENTS	a abiff At /	11 10
			i job in the course of the essential functions of		able accommodations
Physical Demand			Occasional Up to 33% of the time	Frequent 34%-66% of the time	Constant 67%-100% of the time
occasionally lifting ledgers and small one, which involve standing is often n sedentary if walkin	oility to lift up to 10 pour and/or carrying such tools. Although a sedence sitting, a certain amelecessary in carrying our grand standing are requiry criteria are met.	articles as dockets, entary job is defined as ount of walking and	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			Up to 20#	Up to 10# or requires significant	Negligible or constant push/pull of

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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.		walking or standing, or requires pushing/pulling of arm/leg controls	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#
any other physical requirements or bona fide upational qualifications:			