Software Developer II

**Definition of Class**
This is a professional position, in which the incumbent develops and maintains software applications and/or integrates internal processes with external services. The incumbent exercises independent discretion and judgment while designing algorithms and data structures, enhancing or developing new software, and conducting unit level and integration testing.

**Examples of Work Performed**
Follows business requirements to design, implement and maintain software using appropriate data structures and well-designed code that exhibits programming and software design skills.

Develops project plans that include detailed tasks and estimated timeline required to complete each task and the overall project.

Performs unit-level testing of new software and oversees user acceptance testing of new software developed in-house or delivered via enhancements from the ERP Vendor.

Improves and optimizes software that is in the production system by monitoring software in the production system for issues, running performance analyses to determine bottlenecks, and restructuring code to make performance improvements.

Troubleshoots software errors by monitoring the production system for software errors, using debugging tools to locate the code causing the errors, implementing appropriate fixes and testing the software for correctness.

Designs, develops, and tests interfaces to integrate software systems. Selects most appropriate API for developing software interfaces, ensures the security of data that is parked or in transit and implements the interface to integrate systems.

Stays informed on changes in technology, extending skillsets when necessary to perform responsibilities.

Performs similar or related duties as assigned or required

**Essential Functions**
The essential functions include, but are not limited to, the following. Additional essential functions may be identified and included by the hiring Department.

1. Designs implements and maintains software.
2. Improves and optimizes software that is in production.
3. Develops interfaces to integrate software systems.
4. Enhances skillsets as necessary to perform responsibilities.
Minimum Qualifications
These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to The University of Mississippi's Department of Human Resources in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

Physical Requirements: These physical requirements are not exhaustive, and additional job related physical requirements may be added on an as needed basis. Corrective devices may be used to meet physical requirements.

  **Physical Exertion:** The incumbent may be required to lift up to approximately 25 pounds.

  **Vision:** Requirements of this job include close vision and color vision.

  **Speaking/Hearing:** Ability to give and receive information through speaking and listening.

  **Motor Coordination:** While performing the duties of this job, the incumbent is frequently required to use hands to finger, handle or feel objects. The incumbent is occasionally required to stand; walk; sit; talk or hear; stoop, kneel, crouch or crawl; and reach with hands and arms.

Experience/Educational Requirements:

  **Education:**
  Bachelor's Degree from an accredited four-year college or university in Computer Science or a related field.

  **AND**

  **Experience:**
  Two (2) years of experience related to the above described duties.

  **Substitution Statement:**
  Related experience may be substituted for education, on a basis set forth and approved by the Department of Human Resources.

Interview Requirements
Any candidate who is called for an interview must notify the Department of Human Resources in writing of any reasonable accommodation needed prior to the date of the interview.

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