

## **Software Developer – Advanced Java**

### **SUMMARY**

The Software Developer - Advanced, Enterprise Application Support (EAS) is a key service delivery team member for the IT Division of the Department of Human Services (DHS). Reporting to an IT Manager or IT Manager - Senior, s/he will work independently or as a member of a project team, that will design, modify code, participate in code reviews, develop databases and/or implement complex business applications programs.

S/he provides technical support in the development, implementation, maintenance, and support across the system development lifecycle including requirements, functional specifications, design, custom development, integration, testing, and deployment. The EAS teams maintain a strong focus on structuring, managing, and implementing complex technical solutions requiring strong business focus and process optimization, and deliver significant and measurable business value. S/he supports business functions such as Child Care Licensing, Adult Protective Services, Food Programs, Appeals and Hearing, Family Assistance, Child Support Enforcement, and other business units, as needed.

### **PRINCIPAL DUTIES AND RESPONSIBILITIES**

#### **Thinking Creatively:**

1. Recommends changes or enhancements to existing applications or processes which improve the quality of services provided to customers.

#### **Provide Consultation and Advice to Others:**

1. Provides guidance and expert advice to management or other groups on technical, systems, or process-related topics.
2. Provides technical guidance to peers or subordinates regarding improvements to design, code, testing procedures and documentation.
3. Advises management of options that are available to develop or modify an existing system or purchase and modify a commercially available system.

#### **Interacting With Computers:**

1. Develops software according to the design specifications using established software application standards.
2. Changes software to address any unexpected or inaccurate processes identified in the system test or through user feedback.

#### **Monitor Processes, Materials, or Surroundings:**

1. Monitors and reviews information from materials, events, or the environment, to detect or assess problems.
2. Reviews and monitors error logs and brings to the attention of Software Developer-Lead or supervisor.
3. Troubleshoots operational or software problems and recommends solutions to the supervisor.
4. Implements the recommended resolution to operational or software problems.

#### **Getting Information:**

1. Reads and interprets written functional specifications.
2. Works with Business Systems Analysts to establish functional requirements.
3. Validates information gathered to present to lead and/or supervisor.
4. Examines system specification, input/output reports, existing equipment, security protocols and system interfaces to understand how the current system operates.
5. Coordinates with the Software Developer-Lead or supervisor to obtain project task.
6. Confers with lead/supervisor or project manager to obtain information on limitations or capabilities of systems projects to assist in project planning.

**Processing Information:**

1. Generates data to test programs and/or system conditions by extracting data from existing sources or entering new data.
2. Tests and troubleshoots programs using generated data to determine if the program produces the correct execution sequence and programs interface as specified.
3. Modifies program design narrative based on user feedback and walkthrough results.

**Estimating the Quantifiable Characteristics of Products, Events, or Information:**

1. Provides reliable and reasonable estimates of man-hours required for programming assignments.
2. Verifies that project goals and objectives are met on a timely basis.
3. Schedules completion dates for tasks.

**Making Decisions and Solving Problems:**

1. Analyzes information and evaluates results to choose the best solution and solve problems.
2. Determines the appropriate methods and functions to solve problems according to established standards.

**Updating and Using Relevant Knowledge:**

1. Keeps up-to-date technically and applies new knowledge to your job.
2. Demonstrates continued technical skills development by application of new techniques and programming procedures.
3. Completes training assignments related to various technologies through online research and/or training sessions.

**Analyzing Data or Information:**

1. Identifies the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.
2. Analyzes information to determine, recommend, and plan installation of a new system or modification to an existing system.
3. Compares current system processes to proposed system changes in order to determine the potential impact on other systems and business operations.
4. Analyzes existing data for accuracy and completeness.

**Communicating with Supervisors, Peers, or Subordinates:**

1. Provides information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.

2. Performs a system walkthrough with information technology peers and supervisors to identify and correct any design problems or ineffective program logic or proposed coding.
3. Reviews project specifications with supervisor/lead or other appropriate personnel to ensure that programs are moved to appropriate production environments, established standards are met, and that data integrity is maintained.
4. Conducts training sessions regarding the functionality of the system, including error resolution, entering on-line transactions, and reading inquiry screens.
5. Creates status reports for management summarizing the status of work as it relates to the scheduling of their own work, the status of deliverables, and the impact on user business activities.

#### **Documenting/Recording Information:**

1. Prepares program documentation which includes the test plan, program specifications, program narrative, client approval, and results of walkthroughs and testing.
2. Conducts project relevant presentations to stakeholders and/or management and answers any related questions.
3. Creates a conversion plan describing the steps required for data migration.

#### **EDUCATION / EXPERIENCE**

Graduation from an accredited college or university with a bachelor's degree and two years of professional level experience in systems analysis, application design, or software development of business information systems.

The following are desired qualifications.

- Bachelor's Degree in computer science or related field. Experience as an Advance Software Developer may be substituted for the required bachelor's degree.

#### **SKILLS**

This position requires:

- Dedication and commitment to customer service focused delivery of solutions.
- Strong understanding of SDLC and service delivery models.
- Proficient knowledge of code reviews to ensure compliance with best practices, reusability, maintainability and scalability.
- Familiarity with Agile and Scrum methodologies.
- Superior problem solving ability for addressing escalated issues.
- Experience developing in a Linux-based Java/J2EE environment.
- Experience with relational databases.
- Experience with Red Hat JBoss EAP, Apache Tomcat, or comparable application servers.
- Experience creating web services and/or APIs.
- Experience juggling multiple priorities and deadlines.
- Demonstrated flexibility, resilience, and resourcefulness.
- Demonstrated exceptional verbal and written communication skills.
- Ability to organize and plan work to meet goals and deadlines.
- Ability to understand and adapt to new technologies/technology platforms.

#### **COMPENSATION INFORMATION**

Commensurate with qualifications.

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