Sacramento County Office of Education Job Description
Classification Title:
Project Specialist II, Programming/Application Development

DEFINITION

Under general direction, acts as technical lead in the development and modification of Web-based data management systems and applications; plans, codes, implements and supports .NET, ColdFusion, and Structured Query Language (SQL) Server-based technology solutions to meet clients' technology needs; utilizes the system development life cycle to ensure the creation of quality systems; performs other duties as assigned.

DISTINGUISHING CHARACTERISTICS

The Project Specialist II is distinguished from the Project Specialist I by the extensive knowledge and experience required regarding Web programming, user interface design, database programming, project management, and client relations. Further differences include responsibilities and decision-making at a higher level than normally assigned to a Project Specialist I.

DIRECTLY RESPONSIBLE TO

Appropriate administrator

SUPERVISION OVER

Professional, technical and clerical staff as assigned

DUTIES AND RESPONSIBILITIES

(Any one position may not include all of the listed duties, nor do all of the listed examples include all tasks which may be found in positions within this classification.)

Serves as technical lead in the development and modification of sophisticated Web-based data management systems and applications; translates complex business requirements into extensible, scalable and maintainable applications; uses a system development life cycle to plan, develop and deliver applications; prepares functional requirement documents, database design specifications and visual prototypes; estimates time and effort to complete each feature; utilizes model view controller framework methodology, such as .NET MVC or Fusebox to produce clean, modular and efficient code; writes and tunes SQL queries using complex joins, stored procedures and views; implements security protocols to mitigate vulnerabilities including cross-site scripting and SQL injection; expertly codes and oversees the creation of Hypertext Markup Language (HTML), JavaScript and Cascading Style Sheets (CSS); follows coding standards and proven best practices; utilizes World Wide Web Consortium (W3C) programming standards to address accessibility guidelines; writes clear and concise documentation for maintenance and updates; manages the testing process and thoroughly tests code for all contingencies outlined in the requirements documentation; maintains and modifies existing applications to be able to support existing systems programmed in various languages including Web-based .NET, PHP, Active Server Pages (ASP), .NET, Java, and backed by various database management systems including Microsoft SQL Server, Oracle and Microsoft Access; handles multiple projects and deadlines simultaneously; provides user-friendly technical support to clients; and able to communicate well with team members and clients, both orally and in writing.

MINIMUM QUALIFICATIONS

Education, Training and Experience:
Any combination of education, training and experience equivalent to a bachelor's degree in Computer Science, Information Systems, or related field, from an accredited institution; progressively responsible experience as a lead .NET or ColdFusion developer with expert-level skills in coding current releases of .NET, and/or expert-level skills as a ColdFusion developer; experience developing websites using mobile responsive web design; expert-level skills with Microsoft SQL Server.

Knowledge of:
Current releases of Microsoft SQL Server, C#, VB.NET, and Adobe ColdFusion; Visual Studio; Cascading Style Sheets (CSS); JavaScript; database architecture; framework methodologies such as .NET MVC or Fusebox; object-oriented programming methodologies; source control software such as Github or Team Foundation Services; relational database design; system development life cycle;
federal accessibility standards and W3C code validation; project management processes.

Skill and Ability to:
Successfully develop and manage the programming of complex database-driven Web sites; review coding developed by project team for quality assurance purposes; work effectively with clients and staff to plan, implement and monitor a variety of technology projects; establish and maintain cooperative working relationships with program staff, clients, and project partners; communicate technical information to non-technical customers and colleagues; monitor project timelines and budgets.

Other Characteristics:
Possession of a valid California driver's license and ability to provide own transportation in conducting work assignments; willingness to travel locally.

Revisions Approved by Personnel Commission 8/14/18
Revisions Approved by Personnel Commission 8/14/12
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