

Sacramento County Office of Education Job Description

Classification Title: Lead Application Developer

DEFINITION

Under general direction, leads a team of developers in the creation of web applications; plans, coordinates, and manages web development projects to meet departmental and client needs; performs other related duties as assigned.

DIRECTLY RESPONSIBLE TO

Appropriate Administrator

SUPERVISION OVER

Programmer/Application Development staff and other technical personnel as assigned

DUTIES AND RESPONSIBILITIES

(This position may not include all of the listed duties, nor do all of the listed examples include all tasks that may be found in this classification.)

Programming/Application Development

Acts as lead developer for an internal web development team tasked with building various projects for internal and external clients; develops a vision and provides leadership for application development within the department and organization; researches industry trends and best practices to establish development standards, guidelines and processes for the team, and continually checks to ensure team members are following established standards; ensures applications conform to governmental and industry standard accessibility guidelines and requirements; responsible for developing standard libraries, SDKs, database schemas, and documentation standards for use by the team on all projects; ensures consistent code quality and development practices through oversight and training of developers on the team; develops web applications utilizing SQL databases at an expert level; works with systems engineering team to develop standardized build, development, test, and production environments for applications; develops processes and procedures for team to test applications before they are placed into production.

Project Management

Maintains constant communication with external and internal clients using a variety of communication methods and tools; coordinates and monitors activities of development staff; prioritizes staff time and task assignment based on project goals; develops project milestones, timelines, and deliverables in concert with clients; communicates with clients and translates complex business requirements into extensible, scalable, and maintainable applications; monitors project activities and progress; prepares written documents including reports and evaluations as specified by project objectives and activities.

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 lead developer with expert-level skills in current application development technologies.

Knowledge of:

Project management techniques and principles of organization; current releases of ASP.NET MVC / C#, Internet Information Services (IIS), SQL Server, and other technologies in the greater Microsoft ecosystem; Hypertext Markup Language (HTML), Cascading Style Sheets (CSS); JavaScript; Structured Query Language (SQL); XML / JSON; the development and debugging of code within an Integrated Development Environment (IDE) such as Visual Studio; advanced usage of version control systems (Git, Team Foundation Server, etc.) for revision tracking and in automated build systems; bug / issue tracking systems; web

server administration concepts; public key infrastructure (PKI) and cryptography techniques as they relate to application development; concepts of object-oriented programming; software design and database architecture (across multiple platforms); testing tools and methodologies; server and web application security; scripting languages for software automatization at an expert level (PowerShell, shell scripting, etc.); the software development life cycle; server and network protocols at an advanced level as they pertain to software development; federal accessibility standards and W3C code validation.

Skill and Ability to:

Develop and manage the programming of complex database-driven Web sites; evaluate and learn new programming languages, frameworks, and environments without assistance; develop and maintain a build/test pipeline utilizing continuous integration, version control, and build servers with custom code as needed; analyze existing code for security issues and enact safeguards to prevent developers from introducing security issues into existing projects; stay abreast of security issues and vulnerabilities that may affect deployed applications; collect requirements from end users and convert into achievable and measurable goals and milestones for the application development team; evaluate progress toward project completion; set priorities and timelines; work with Web development staff to determine appropriate processes and procedures to address specific objectives; organize work to meet strict deadlines; plan, coordinates and manages technical assistance and professional development activities; communicate effectively in both oral and written forms; interact with clients and users in non-technical, clear terms; establish and maintain cooperative working relationships with staff, organizational members, grantors, and other clients.

Other Characteristics

Possession of a valid California driver's license and willingness to travel.

Revisions approved by Personnel Commission 2/12/19
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Former title: Coordinator, Technology Projects
Approved by Personnel Commission 11/14/00