

WEB ARCHITECT

DEFINITION

Directs, manages, plans and administers global architecture activities including system implementation and development for web applications. Analyzes existing business practices and develops web based workflow improvements that conform with organizational needs and goals.

TYPICAL DUTIES

Leads the analysis of organizational needs and goals, and the design and implementation of internal and external web pages and applications.

Provides project leadership for IT projects.

Manages all aspects of IT projects including resources and schedules, applying standard approaches and procedures.

Makes recommendations concerning the selection of appropriate tools and products that will facilitate the implementation of the architecture.

Prepares proposals based on the architecture of the applications to be developed.

Defines system application architecture and articulates the architecture and technical vision to developers on the team to determine requirements for web pages and related applications.

Gathers client requirements and conceives the technical infrastructure to support business applications.

Consults with user representatives in Joint Application Development groups to determine feasibility of applying web technology to user departmental procedures, identifies problems, and establishes systems requirements, parameters and objectives.

Prepares reports detailing technical feasibility and cost of implementing web applications or alternatives.

Reviews existing systems and programs, analyzes them to determine the source of any difficulties, and modifies procedures and systems as necessary.

Writes, edits, and reviews project documentation using various office automation tools.

Manages systems implementation activities for user departments, other units, and computer operations personnel, and develops and participates in training classes for employees or user departments.

Manages software development projects.

Develops/executes project plans.

Administers activities associated with the project.

Applies software engineering methodology to software development projects.

Supervises the work of Web Developers and other technical staff.

Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

A Web Architect directs and manages global architecture activities analyzes existing business practices and develops workflow improvements and conducts feasibility studies for the development and maintenance of web applications. A Web Architect supervises Web Developers assigned to small units or working on portions of a large project.

A Systems and Programming Director supervises and coordinates the analysis, design, programming, and maintenance of information systems for a wide variety of applications to District administrative, business, and school operations.

A Web Developer designs or assists in the design of web applications and program logic; analyzes software specifications and prepares detailed program logic flow charts; codes program logic instructions; tests and debugs software applications; detects and corrects software logic deficiencies; produces and maintains documentation pertaining to computer software design, objectives, and operation requirements; and works with other data processing personnel in solving computer programming problems.

SUPERVISION

General supervision is received from a Technical Specialist, Senior ERP Director, Business Systems or other higher level administrator. Supervision is exercised over Web Developers, .NET Developers, and/or SQL Developers. Technical and functional supervision may be exercised over software engineering performed by other data-processing personnel.

CLASS QUALIFICATIONS

Knowledge of:

- Systems Development Life Cycle
- Structured programming, object oriented, and design techniques
- Modeling, prototyping, simulation, and performance analysis
- Block and flow chart diagrams, theory and application, using Change Management and version control
- Relational Database Management Systems concepts
- Database design
- Oracle, SQL Server, Databases
- Project Management and Project Tracking
- Windows, OS, Linux, Red Hat
- Microsoft Project
- ATM
- Network design concepts
- Visual Studio, .NET, HTML, Java, JavaScript, Servlets, JavaBeans, Oracle J2EE, JSP, ASP, SQL Server, COM, CSS, SQL, PL/SQL, C#, Powershell
- TFS
- Web site administration
- Server administration
- Web services
- Release Management
- Agile Development

Ability to:

- Apply UML to real world problems
- Analyze problem situations, define problems, identify relevant factors and relationships, formulate solutions, and recognize the implications of those solutions
- Express difficult concepts orally and in writing in a clear and concise manner that is understandable to data-processing and non-data-processing personnel
- Coordinate systems design with user needs, data, regulations, and other factors
- Work independently with a minimum of supervision
- Think creatively in developing new procedures, methods, or approaches
- Re-engineer work flow for users
- Train subordinates and others
- Plan work assignments and estimate needs for staff and time
- Manage multiple concurrent projects
- Work under the pressure of deadlines in a fast-paced environment
- Create a positive customer service attitude

Work well at all levels in the organization as either a team member or independently
Recommend improvements to the system platform processes within functional and budgetary constraints
Develop strong technical system documentation
Interact with all levels of staff from senior management to technical systems specialists

ENTRANCE QUALIFICATIONS

Education:

Graduation from a recognized college or university, with a major in Computer Science, Information Systems, Mathematics or any related field. An advanced degree in Computer Science is preferable. Additional qualifying experience in developing web application architecture may be substituted on a year-for-year basis for up to two years of the required education.

Experience:

Five years of experience in architecting and developing large, scalable, distributed systems using Microsoft Development Tools and Languages such as Visual Studio, C#, ASP, HTML and SQL Server or Java Development Tools and languages such as JSP, Oracle Database, JavaScript, and JavaBeans. Experience must include object-oriented analysis, design, programming, design patterns, and framework. At least two years of the experience must be managing large object-oriented software projects. Experience with .NET or J2EE is preferable. Supervisory experience is preferable.

Special:

A valid California Driver License is required.
Use of an automobile.

This class description is not a complete statement of essential functions, responsibilities, or requirements. Entrance requirements are representative of the minimum level of knowledge, skill, and /or abilities. To the extent permitted by law, management retains the discretion to add or change typical duties of a position at any time, as long as such addition or change is reasonably related to existing duties.

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