.NET DEVELOPER

DEFINITION

Responsible for the design, development, implementation, and support of .NET-based software applications and components.

TYPICAL DUTIES

Designs, develops, tests, documents, and implements high quality business needs using the .NET framework.

Designs and implements .NET-based databases and manages data loads and data quality.

Codes, compiles, and tests complex website and mobile applications.

Maintains multiple user roles, security, profiles, and workflow rules.

Supports and trains new and existing users in .NET applications.

Manages system problems after business hours and responds to calls to support applications.

Designs and creates advanced business reports with graphics and charts integrated with web based applications.

Installs, tests, debugs, supports, and documents applications and complex technical implementations.

Ensures application quality and consistency.

Diagnoses and troubleshoots problems with existing applications.

Identifies and evaluates industry best practice solutions to utilize in a technical environment.

Provides time estimate and schedules for projects and communicates with departments and users on project requirements and status.

Assists in establishing and implementing standards that will facilitate high-quality IT infrastructure.

Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

A .NET Developer designs, develops, implements, and supports complex and critical .NET-based applications based on District and customer needs and modifies and maintains existing .NET applications.

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 Programmer Analyst performs responsible systems analysis and programming on complex projects, assists higher-level programmer analysts on the most complex projects, and may provide work direction and technical assistance to assigned personnel.

SUPERVISION

General direction is received from a Technical Specialist or Senior Technical Project Manager. Supervision is received from a Web Architect. No supervision is exercised.

CLASS QUALIFICATIONS

Knowledge of:

Web application design and development
Structured programming, object-oriented programming, and design patterns
Data management, SQL database design, and RDBMS technologies
Programming languages including .NET framework 4.5 (or higher) or .NET core 2.0 framework, including C#, ASP.NET, ASP.NET MVC, LINQ, Entity Framework, ADO.NET
New trends in the field of information technology
Principles of program documentation, TFS source control management, DevOps concept, and Continuous Integration (CI)/Continuous Delivery (CD) implementation
Test-driven development and automated testing
Design of modern and responsive web UI that are cross-browser compatible.
Web related technologies including HTML, CSS, Bootstrap, JavaScript, jQuery, REST API, JSON, Ajax, TypeScript.
Report development tools such as Crystal Reports, Oracle Reports, Birt, SQL Server Reporting Services (SSRS), SSIS, Tableau, etc.
Hybrid mobile application development using frameworks such as Cordova, React, Xamarin, Vue.js, Angular.js, and Node.js

Ability to:

Communicate clearly and concisely, both orally and in writing
Work effectively with all levels of District personnel and the public
Manage multiple concurrent projects
Express difficult concepts orally and in writing in a clear and concise manner that is understandable to both technical and non-technical personnel
Work independently with minimum supervision
Develop test data and analyze problems in programs
Learn the characteristics of new systems and update skills to adapt to changing technology

ENTRANCE QUALIFICATIONS

Education:

Graduation from a recognized college or university with a bachelor's degree, preferably in Computer Science, Information Technology, or a related field. Additional qualifying experience may be substituted on a year-for-year basis for up to two years of the required education provided that the requirement of a high school diploma or equivalent is met.

Experience:

Three years of experience in software development using seven of the following technologies: .NET 5, C#, ASP.NET MVC, TFS, Entity Framework, REST API/Webservices, Ajax, jQuery, JavaScript, .Net Core, Bootstrap and modern UI design in SQL Server 2012 or later database environment. One year of experience with Oracle 12c or newer and mobile application development experience is preferred.

SPECIAL NOTES

Employees in this class may be subject to call at any hour.

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.

Revised
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LKD