

MAJOR FUNCTION

This is advanced professional and technical work designing, developing, and deploying data analytic solutions for internal and external users. The incumbent will work with project managers, customer business matter experts, and other technical staff to assist in the creation of effective data analytic and data visualizations. Work is performed under the supervision of the Innovation Manager and is reviewed for achievement of desired results through regular status meetings.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Develops data analytics and data visualizations for mission critical business functions. Meets with functional users of business units to identify and document the business need and prioritization of effort. Performs details analysis and evaluation of the need and determines the appropriate mix of technical tools, custom coding, data storage, and infrastructure requirements necessary to deliver the solution. Develops and deploys the solution through a combination of software tools, accessible web services and custom coding. Documents the solution in appropriate enterprise documentation systems. Plans, organizes, and conducts meetings as needed with technical and functional resources for product updates, reviews, and enhancements. Troubleshoots development and production problems across multiple environments and operating platforms. Perform necessary database creation / update operations to support the solution as well as work with database administrators to perform migrations and upgrades. Provides clear and concise written and oral communications to technical staff, functional representatives and supervisor. Works in a team environment including collaborating on solutions from concept to completion. Provides technical expertise in the development and evaluation of request for proposals. Performs related work as required.

Other Important Duties

Keeps informed and abreast of major trends and developments in information technology by researching new technologies and software products through professional publications and other means. Participates in educational opportunities. Has an active interest in keeping up with new developments in the analytics landscape by participating in webinars or periodic challenges using samples provided by the analytics development community. Pursues extended education on best practices by training and/or certifications in tools being used. Communicates and relates technology trends and practices to City business community. Performs related work as required.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Considerable knowledge and understanding of data analytic and data visualization technology and current industry trends and best practices for analytics, recognized technology policies and procedures, project management requirements, procedures and techniques. Ability to apply best practice security techniques to web and mobile application development. Knowledge of all aspects of product development cycle. Knowledge of web application development using multiple programming technologies, leveraging multiple platforms in any hosting environment. Ability to analyze and convert business requirements into design specifications. Ability to apply sound change management techniques in implementing technical solutions. Ability to work with both IDE (integrated development environment) and text based coding. Ability to conduct independent research and define results. Ability to devote required attention to detailed work. Ability to interact effectively with functional representatives and technical co-workers one-on-one and/or in team environments. Ability to organize time and resources for maximum benefit. Skill in verbal and written communication. Skill in

time management, and self motivation. Strong analytical, design, and problem solving skills for providing simple to complex business solutions recommendations. Experience with industry standard data visualization, data analytic, and extract transform and load software tools. Web development skills using a variety of languages up to and including java/.net/node.js/ and others. Database modification and query language skills for a variety of RDBMS systems. Use of web services and cloud provided applications. Microsoft office and related applications.

Minimum Training and Experience

Possession of a bachelor's degree in computer science or a related field and three years of technical experience in design and development of data analytics and data visualizations; or an equivalent combination of training and experience.

Necessary Special Requirement

Designated positions assigned to this class may require a valid Class E State driver's license at the time of appointment.

Designated positions assigned to this class may require experience in application development using Alteryx or related data analysis tools. Tableau or similar data visualization tools. Custom development using java, .net, node.js and other web development languages and technologies. The ability to understand API requirements of external systems and interface with those APIs. Experience using standard reporting tools such as Crystal Reports, SSRS, or Cognos. Experience using Atlassian toolsets for task management, source code control, and documentation. Experience with the management of application servers (IIS / Tomcat), web servers (Apache), and databases (Oracle, Sql Server, MySql).

Established: 07-04-20