

MAJOR FUNCTION

This is top level technical professional work with broad experience in configuring, deploying, and upgrading an analytics ecosystem up to and including data science platforms, ETL and data migration tools, and data visualization software. Serves as a technology liaison to other departments to encourage the adoption of analytic tools for use within the organization. Responsible for creating advanced data analytics involving integration of multiple data sources, web services, and applications. The Enterprise Analytic Architect will develop shareable components that can be used by other developers within the City. 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**

Responsible for all phases of the lifecycle of the analytics server environments including installation, configuration, user maintenance, and development of an upgrade path alongside notifications to users. Works with vendors, distributors, and internal users to manage the licensing and access of the analytic platforms. Work as an evangelist to promote the adoption of analytic solutions to other areas of the City. Develops highly advanced data analytics and data visualizations for mission critical business functions across all areas of the City. Demonstrate an advanced knowledge of software products in the data science, extract transform and load, and data visualization arenas for such purposes and be ready to utilize intermediate and advanced components of those tools. Be able to work with junior developers to demonstrate strengths, weaknesses, and nuanced features of existing toolsets. Proposes different ways that the solution can be provided in terms of user interface and design of dashboards, reports, and analytics. Capable of working with automated programming interfaces to integrate systems in order to create a dataset useful for analytic or visualization rendering. Capable of independently identifying additions, plug ins, macros, or other components of existing tools that can be incorporated into the analytics space. Demonstrate capability in commonly used statistical programming languages such as R or python and be able to incorporate those skill sets into provided solutions. Develops and deploys the solution through a combination of software tools, accessible web services and custom coding. Troubleshoots development and production problems for analytics developed across the organization spanning multiple environments and operating platforms. Provides clear and concise written and oral communications to technical staff, functional representatives and supervisor. Can independently estimate strengths and weaknesses of available software platforms for inclusion into the analytics ecosystem. Works in a team environment including collaborating on solutions from concept to completion. Performs related work as required. Capable of doing any work assigned to a Senior Analytic Architect if necessary.

Other Important Duties

Periodically performs evaluations of new software tools to determine if they are an appropriate fit for the organization. Participates in educational opportunities. Has an active interest in keeping up with new developments in the analytics landscape by participating in webinars, speaking engagements, 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 at the City.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Experience maintaining and upgrading analytic server environments for a variety of data science, data aggregation, data visualization, and data analysis tools. Significant client facing ability to work with management or other non-technical workers to introduce the benefits of analytic solutions. Significant, long term 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 sound change management techniques in implementing technical solutions. 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. Skills to include, but not be limited to, use of the following tool sets: Tableau, Looker, PowerBi, QlickView, Google Studio or other data visualization tools designed to render data into visual representations. Development of solutions using Alteryx, SSIS, Talend, RStudio, Informatica or other data ETL and data science tools. A working knowledge of statistical packages commonly in use for programming purposes such as R or python. Experience with application programming interfaces to interact with applications via protocols.

Minimum Training and Experience

Possession of a bachelor's degree in computer science or a related field and six years of technical experience in design and development of data analytics and data visualizations; A minimum of four years of experience maintaining server installations of data analytic software. In addition, a minimum of two years of experience serving as an advisor on the benefits of data analytics and working to start up a baseline set of solutions; 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. The ability to understand API requirements of external systems and interface with those APIs. Experience using Atlassian toolsets for task management, source code control, and documentation.

Established: 07-04-20