



## ANALYST III-DevOps K-8

### DEFINITION:

Under the supervision of the Coordinator Information Services, designs, implements, and maintains computing systems; develops scalable, reliable and performant infrastructure; builds and maintains systems for automation and deployment of custom applications; creates and maintains test environments; develops logging, monitoring and alerting systems; crafts accurate and readable documentation for internal and external use; plans for high availability and disaster recovery.

### DISTINGUISHING CHARACTERISTICS:

The Analyst III - DevOps takes primary responsibility for cloud infrastructure, deployment, logging and availability of a variety of systems. This position is distinguished by the level of leadership expected and the high-complexity, resource investment, and/or potential risk or conflict typically inherent to the incumbent's assigned projects.

**ESSENTIAL DUTIES AND RESPONSIBILITIES** include the following. Other duties may be assigned.

- Oversee complex technology systems, including implementation, technical problem solving, ongoing support, and enhancements. Evaluate systems for cost-effectiveness and support of district objectives.
- Prepares cost and benefit analysis of alternative hardware and software solutions; surveys hardware and software trends and makes strategic recommendations relative to new advances and the needs of; makes recommendations relating to assigned activities affecting IUSD.
- Maintains, monitors and analyzes District data systems security; troubleshoots technical problems, and responds to District needs for growth in storage and services.
- Designs, implements, documents and maintains a software-defined infrastructure.
- Designs, implements, documents and maintains a highly available, disaster resilient testing and production environment.
- Automates cloud native technologies, deploys applications and provisions infrastructure.
- Implements and maintains a version control system.
- Develops continuous integration and continuous delivery (CI/CD) workflows and tools.
- Installs, configures and tests software applications and system interface programs
- Reviews, analyzes and modifies existing systems and programs as necessary; prioritizes and responds to help desk work requests concerning existing computer systems and programs; compiles and edits programs and make necessary adjustments
- Communicates with administrators, department staff, vendors, service providers and other outside organizations to coordinate activities, and resolve issues.
- Monitors cloud spending to prevent budget overruns.
- Prepares and maintains a variety of records and reports related to assigned activities.
- Operates a variety of office equipment including a computer and assigned software.
- Drives a vehicle to various sites to troubleshoot software and hardware related problems.
- Attends and participates in meetings, conferences and in-service trainings; maintains current knowledge of technological advances and industry trends.

### QUALIFICATIONS GUIDE

#### Knowledge of:

- Logging frameworks, log aggregation, log storage and log querying strategy.
- Infrastructure performance monitoring.
- System and cloud scripting languages
- Strategies for system failover and actionable alerts. Develop health checks.

- Knowledge of security and compliance strategies including authentication and authorization, protection of sensitive data and enforcement mechanisms.
- Modern Source control systems
- Principles and techniques of system analysis.
- Interpersonal skills using tact, patience and courtesy.
- Oral and written communication skills.

### Ability to:

- Develop, deploy and maintain distributed application architecture, including containers and/or serverless technologies.
- Create infrastructure for CI/CD processes.
- Work with a creative engineering team to continuously implement and improve reliable and speedy build environments for development and quality assurance; provide timely build status updates; automate as much as possible to improve efficiency and quality
- Craft solid and clearly explained designs, playbooks, and documentation, for consumption by teammates and the larger organization
- Build logging, monitoring, and alerting systems to identify bottlenecks and assist with debugging, analysis, and optimization in a cloud-agnostic environment
- Work with network and development teams to define escalations. Resolves critical issues that impact highly available dev, test and production systems.
- Ensure traceability, observability, and retrievability of sources and deliverables
- Improve operational efficiency through automation and deployment or development of new tools

### EDUCATION/EXPERIENCE:

Any combination equivalent to: bachelor's degree in computer science, information systems or related field and four years increasingly responsible programming experience.

### LICENSES AND OTHER REQUIREMENTS:

- Valid California Class C driver's license.

### PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Hearing and speaking to exchange information in person or on the telephone.
- Seeing to view a computer monitor.
- Dexterity of hands and fingers to operate a computer keyboard.
- Lifting, carrying, pushing and pulling objects up to 25 pounds.
- Bending at the waist, kneeling or crouching.

### WORK ENVIRONMENT:

Indoor/Office environment. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. The noise level in the work environment is usually moderate.

New Position: 06/2022